

Expression of Interest
QA/QC for Closure Cap Construction and Leachate Management System

City of Elkins Landfill Construction
Solicitation No. CEOI 0313 DEP1800000003

Prepared for:

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

Prepared by:

TRIAD ENGINEERING, INC.
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Morgantown, West Virginia
Benjamin Campbell, PE
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05/18/18 11:56:02
Purchasing Division



May 22, 2018

May 22, 2018

Ms. Brittany E. Ingraham
Department of Administration, Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

RE: Expression of Interest
Quality Assurance / Quality Control for DEP / Randolph County
Solicitation #CEOI 0313 DEP 1800000003
Triad Proposal No. 01-18-0197

Dear Ms. Ingraham:

Triad Engineering, Inc. (Triad) is pleased to submit this Expression of Interest (EOI) in response to your solicitation for QA/QC services for the Closure Cap Construction and Leachate Management System for the Elkins-Randolph County Landfill.

Triad has significant experience in the monitoring of landfill closures and leachate collection tanks across the mid-Atlantic region (and in particular in West Virginia). Mr. Randy Moulton, P.E., Principal, Chief Engineer, has been responsible for managing design of corrective measures at three sanitary landfills under the Landfill Corrective Action Program (LCAP). These projects all included construction monitoring services. Triad will bring to your project the professional expertise and lessons learned from the past 43 years of engineering and construction experience in this area.

We appreciate the opportunity to provide the enclosed information describing how we can assist you in the successful and environmentally safe completion of this project. We look forward to meeting with you to discuss our capabilities and qualifications in more detail.

Sincerely,

TRIAD ENGINEERING, INC.



Benjamin G. Campbell, P.E.
Senior Project Engineer
bcampbell@triadeng.com
304.296.2562 – Office



Randy L. Moulton, P.E.
Principal Engineer
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540.667.9300 – Office



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Overall Capabilities to Perform the Work

Triad Engineering, Inc. (Triad) is a regional engineering firm providing services in the areas of construction inspection and materials field and laboratory testing, geotechnical engineering, survey, civil design, and environmental services, as well as, related earth-science disciplines. The firm has provided services on thousands of projects of varying size and complexity since beginning operations in 1975. Our clients include government agencies, educational institutions, mining, energy, and manufacturing, general contractors, architects, commercial developers, and other engineers.

Triad was founded in 1975 in Morgantown, WV, by three civil engineers from West Virginia University. A second office was opened in the Charleston, WV, area in 1979. In 1989 Triad expanded into Virginia with offices in Winchester and Ashburn. Triad began operations near Pittsburgh, PA, in 1990 and opened an office in Hagerstown, MD, in 1999. Our most recent office opened in Athens, OH. In 1995, Triad became an Employee Stock Ownership Plan (ESOP) which contributes to the overall dedication and commitment of its personnel.

Facilities and equipment available to support Triad's staff and projects have grown substantially since 1975. Eight drilling rigs are located in West Virginia offices and a fleet of four-wheel drive and two-wheel drive vehicles are maintained in-house to meet the needs of our field operations. Fully equipped materials testing laboratories are maintained in five of our seven offices to provide support for our engineering and construction related projects. Each office maintains state of the art computer facilities utilized for roadway design, survey data reduction and mapping, and CADD applications, groundwater modeling, hydraulic evaluations, and stability analysis. Triad's drafting and reproduction facilities are sufficient for development of detailed design drawings, construction specifications, and other necessary reports and documentation. These broad in-house capabilities give Triad control over schedule, cost, and quality thereby minimizing the possibility of time delays, cost overruns, or errors due to coordination with other firms.

Triad's Materials Testing Laboratory is accredited by the American Association of State Highway and Transportation Officials (AASHTO) for Establishing and Implementing a Quality System for Construction Materials Testing for Laboratory Testing of Soils, Concrete, and Concrete Aggregates.

Triad's Mobile Business Application provides the capabilities of electronic reporting procedures. Triad's personnel have the ability to submit inspection and testing reports prior to leaving the project site. Project Managers are able to review these reports and submit PDF versions of customizable reports to our clients within 24 hours via email.

Personnel Qualifications

Work under this contract will be managed from Triad's Morgantown, WV office, which is located within one mile of 1-79. Benjamin Campbell (WV P.E. License #20492) will be the Project Engineer / Project Manager for this contract. Mr. Campbell has over 11 years' experience and holds a MS degree from Marshall University in Engineering, a BS degree from Fairmont University in Civil Engineering Technology, and an AA degree from Potomac State College in Civil Engineering. In addition to his PE license, Mr. Campbell is certified by WVDOT-DOH in Aggregate and Soil Compaction Inspection, Portland Cement Concrete Inspection and Technician, Aggregate and Soil Compaction Testing, and Asphalt Field Testing.

Triad's Morgantown laboratory is supervised by Danny Blake who has over 32 years experience with Triad and has substantial concrete and compaction experiences. Mr. Blake holds certifications from NICET in Level II Construction Materials Testing for soils and concrete and Level III for Geotechnical Laboratory Testing. He is certified through ASCET for Soil, Concrete and Asphalt technician, and the WVDOT-DOH for Inspection in Soil and Aggregate Compaction Testing and Portland Cement Concrete Testing.

Mr. Allan Kennedy will be supervising the technicians who will be assigned to this project. He brings over 21 years' experience and has certifications by ACI for concrete strength testing, concrete lab testing, aggregate testing, and field concrete testing. Additionally, Mr. Kennedy is certified through WVDOT-DOH for soil compaction inspector and Portland cement concrete inspector. Each technician assigned to this contract will have the appropriate certifications, training, and experience necessary to perform job functions with professionalism and thoroughness.

Please refer to Appendix II for resumes specific to each of the personnel assigned to this project.

Proposed Staffing Plan and Methods of Approach

Triad should not require any subcontractors for services to be provided under this contract. It has been the philosophy of Triad from our inception to provide full service consulting to the degree we have the ability and expertise in-house. Therefore, over the years Triad has invested a great deal of capital to assemble modern and reliable equipment as well as teams of qualified and experienced personnel. Because we have focused on investing in people and equipment, Triad rarely needs to utilize subcontractors. Triad has found that maintaining capability in-house provides better control over schedule, cost, and quality.

Triad performs QA/QC testing and inspection in strict accordance with the specifications and Quality Assurance/Quality Control plan for each specific project. As with the 22 landfill projects of which Triad has provided QA/QC services over the past 25 years, services for the Randolph County Landfill project will be performed per the specifications of the plan.

Past Project Descriptions

Triad Landfill Project Experience includes the following, but is not limited to:

Project Name Location	Contact Information	Triad Services
MARION COUNTY LANDFILL Farmington, WV	Mr. Paul Benedum (304) 368-2000	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial Photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
MORGAN COUNTY LANDFILL GREAT CACAPON, WV	Mr. Mark Church (540) 665-5643	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
DONS DISPOSAL Charleston, WV	Mr. Clyde Bennett (304) 872-3800	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
CITY OF BUCKHANNON CLOSURE CAP Buckhannon, WV	Mr. Mark Church (540) 665-5643	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
CITY OF BUCKHANNON LEACHATE COLLECTION Buckhannon, WV	Mr. Mark Church (540) 665-5643	Leachate treatment feasibility study; Borrow soils investigation; Laboratory soils & permeability testing; Leachate sampling and testing; Site design; Leachate lift station design; Sewer design; Construction drawings & specifications; Construction cost estimate; Construction bid preparation and management

Project Name Location	Contact Information	Services
MCDOWELL COUNTY LANDFILL Roderfield, WV	Mr. Clyde Bennett (304) 872-3800	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
GRANT CO. LANDFILL Petersburg, WV	Mr. Mark Church (304) 872-3800	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
ERO LANDFILL Mason County, WV	Mr. Clyde Bennett (304) 872-3800	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management; Monitoring well installation; Wetland treatment system design
MINGO CO. LANDFILL Mingo County, WV	Mr. Clyde Bennett (304) 872-3800	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
NORTH LANDFILL Marietta, OH	Mr. Tim King (304) 747-3763	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
CHARLES PACE TIRE SITE Tunnelton, WV	Mr. Charlie Jordan (304) 558-0844	Review of soils & hydrogeological data; other siting information; and, preliminary plans & specifications

Project Name Location	Contact Information	Services
GOFF MOUNTAIN LANDFILL Institute, WV	Mr. Steve Graves (304) 767-6613	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
FREDERICK COUNTY CDD LANDFILL Winchester, VA	Mr. Harvey E. (Ed) Strawsnyder (540) 665-5643	Aerial photography and development of contour mapping; Geotechnical investigation; Monitoring well installation; Construction drawings & specifications; Permit document preparation; Construction inspection of several cells
LOCAL SANITATION SERVICE Morehead, KY	Mr. Steve Hodges (606) 784-6544	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
FREDERICK COUNTY SANITARY LANDFILL Winchester, WV	Mr. Harvey E. (Ed) Strawsnyder (540) 665-5643	Geotechnical and hydrogeologic studies; Laboratory soils & permeability testing; Monitoring plan preparation; Groundwater sampling and testing; Monitoring well installation; Construction monitoring and testing of numerous cells
PRICHARD LANDFILL Prichard, WV	Mr. Rick Maynard (304) 648-5925	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
SYCAMORE LANDFILL Hurricane, WV	Mr. Charles A. Forth (304) 562-2611	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management
SOIL OPERABLE UNIT 1 Marietta, OH	Mr. Tim King (304) 747-3763	Construction oversight on behalf of owner on two-year construction project for closure of several superfund landfill units

Project Name Location	Contact Information	Services
NUMBER 1 LANDFILL Sistersville, WV	Ms. Tina Adams (304) 652-3211	Closure design; Permit document preparation; Borrow soils investigation; Site characterization and evaluation (groundwater, waste limits); Closure construction inspection; Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management; Monitoring well installation
HOLTZ IMPOUNDMENT So. Charleston, WV	Mr. Jerome Cibrik (304) 747-2987	Closure Design; Permit document preparation; Borrow soils investigation; Closure construction inspection; Site characterization and evaluation (groundwater, waste limits); Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction cost estimate; Construction bid preparation and management; Monitoring well installation
NUMBER 3 LANDFILL Sistersville, WV	Ms. Tina Adams (304) 625-3211	Site feasibility study; Closure design; Borrow soils investigation; Monitoring well installation and hydrogeologic studies; Permit document preparation; Site characterization and evaluation (groundwater, waste limits); Aerial photography and development of contour mapping; Construction drawings & specifications; Closure construction inspection; Closure construction cost estimate; Construction bid preparation and management Liner compatibility study
NUMBER 2 LANDFILL Sistersville, WV	Ms. Tina Adams (304) 625-3211	Engineering design; Synthetic and soil liner construction inspection; Permit document preparation; Monitoring well installation; Aerial surveying and ground control; Construction cost estimate and construction bid document preparation
RHONE-POULENC CLOSURES Institute, WV	Mr. George Kennedy (304) 747-6870	Closure design; Site investigation; Surveying and topographic mapping; Borrow material study; Lab testing; Construction inspection; Engineering certification; Annual hydrogeologic analysis
SHENANDOAH COUNTY LANDFILL EXPANSION Woodstock, VA	Mr. Henry Mikus (540) 984-8573	Soil and hydrogeologic studies; Monitoring well installation; Laboratory soils & permeability testing; Permit documents; Subsidence stabilization design
WV TIRE DISPOSAL Summersville, WV	Mr. Charlie Jordan (304) 558-0844	Review of soils & hydrogeological data; other siting information; preliminary plans & specifications
PRINCE WILLIAM COUNTY LANDFILL Prince William Co., VA	Mr. David E. Stinson (703) 471-6150	Soils and hydrogeologic studies; Monitoring well installation; Laboratory soils & permeability testing;
NORTHWESTERN LANDFILL Parkersburg, WV	Mr. Ron Levine (304) 428-0602	Construction inspection; Borrow study; Lab testing; On-going consultation; Clay liner QA/QC; Certification report;

Project Name Location	Contact Information	Services
EAST SETTLING BASIN CLOSURE Sistersville, WV	Mr. Okey Tucker (304) 625-3211	Borrow study; Materials testing; Soils QA/QC; Engineering certification
CHARLES CITY COUNTY REGIONAL LANDFILL Charles City, VA	Mr. John Brunson (404) 438-7770	Soil and hydrogeologic studies; Monitoring well design and installation; Laboratory soils & permeability testing
MEADOWFILL LANDFILL Clarksburg, WV	Mr. Dave Gallagher (304) 842-2784	Borrow study; Subsurface investigation; Lab testing; Synthetic and clay liner QA/QC; Certification report; Stability analysis
GALLIA COUNTY LANDFILL Gallapolis, OH	Mr. Tim Laraway (404) 513-2560	Surveying; Borrow study; Drainage structures design; Sediment pond upgrade design; QA/QC inspection
PAGE COUNTY LANDFILL Luray, VA	Mr. Ron Wilson (540) 743-4142	Geotechnical and hydrogeologic feasibility studies; Monitoring well installation; Groundwater sampling and testing
LOUDOUN COUNTY LANDFILL Leesburg, Virginia	Ms. Sharon Hodges (540) 777-0591	Construction monitoring and testing; Laboratory soils & permeability testing
PRINCE WILLIAM COUNTY CONSTRUCTION DEBRIS LANDFILL Prince William County, VA	Mr. David E. Stinson (703) 471-6150	Soil investigation; Laboratory soils & permeability testing
SHENANDOAH COUNTY LANDFILL Woodstock, VA	Mr. Richard Chrisman (540) 984-8573	Soil and hydro-geologic studies; Monitoring well installation; Laboratory soils & permeability testing
PANIC POND RETROFIT Sistersville, WV	Mr. Okey Tucker (304) 652-3211	Borrow study; Synthetic liner QA/QC; Soils QA/QC; Field and lab permeability testing
EMERGENCY BASIN RETROFIT Marietta, OH	Mr. Bob Dulaney (614) 374-1146	Borrow study; Synthetic liner QA/QC; Soils QA/QC; Field and lab permeability testing
PRESTON COUNTY LANDFILL Masontown, WV	Mr. Harold Ray (304) 864-6514	Laboratory soils & permeability testing; Permit preparation; QA/QC testing
BUCKHANNON LANDFILL Buckhannon, WV	Mr. Burl Smith (304) 472-1002	Hydrogeologic study; Monitoring well installation; Laboratory soils testing
GARRETT COUNTY LANDFILL Oakland, MD	Mr. Lee Thorne (301) 334-3988	Monitoring well installation; Soil & synthetic liner QA/QC; Laboratory soils & permeability testing;
ROMNEY LANDFILL EXPANSION Romney, WV	Mr. Jay Jensen (304) 257-1221	Borrow studies; Laboratory soils & permeability testing; Geologic study

References:

Beitzel Corporation

Mr. Durrell Orendorf
Senior Project Manager
12072 Bittinger Road
Grantsville, MD 21536
durrellorendorf@beitzelcorp.com

WV Department of Environmental Protection

Mr. Mark Church
mark.a.church@wv.gov

WV Department of Environmental Protection

Mr. Paul Benedum
DLR – Landfill Closure Assistance Program
paul.i.benedum@wv.gov



ATTACHMENT #1

DEP CONSULTANT QUALIFICATION QUESTIONNAIRE CQQ

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CONSULTANT QUALIFICATION QUESTIONNAIRE**

PROJECT NAME Elkins Landfill Quality Assurance/ Quality Control Construction		DATE (DAY, MONTH, YEAR) May 22, 2018	FEIN 55 0592364	
1. FIRM NAME Triad Engineering, Inc.		2. HOME OFFICE BUSINESS ADDRESS 1097 Chaplin Road Morgantown, WV 26501		3. FORMER FIRM NAME N/A
4. HOME OFFICE TELEPHONE (304) 296-2562	5. ESTABLISHED (YEAR) 1975	6. TYPE OWNERSHIP Individual <input type="checkbox"/> Corporation <input checked="" type="checkbox"/> Partnership <input type="checkbox"/> Joint-Venture <input type="checkbox"/>		6a. WV REGISTERED DBE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
7. PRIMARY OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. (name particular type) PERSONNEL EACH OFFICE 1097 Chaplin Road Morgantown, WV / 304.296.2562 / Person in Charge: Bill Ernstes, PLA No. Personnel: <ul style="list-style-type: none"> • Civil Design – 2 • Geotechnical – 3 • QC/QA – 15 • Survey – 8 • Business Development – 1 • Administrative Support – 1 • Finance - 2 				
8. NAMES OF PRINCIPAL OFFICIALS OR MEMBERS OF FIRM Brad Reynolds, PE – CEO – 301-797-6400 Dave Meadows, PE PS – Chief Technical Officer – 304-755-0721			8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS Randy Moulton PE - Principal Engineer / 540-667-9300	
9. PERSONNEL BY DISCIPLINE				
<u>15</u> ADMINISTRATIVE SUPPORT	<u> </u> ECOLOGISTS	<u> 2</u> LANDSCAPE ARCHITECTS	<u> 0</u> STRUCTURAL ENGINEERS	
<u> 0</u> ARCHITECTS	<u> 0</u> ECONOMISTS	<u> 0</u> MECHANICAL ENGINEERS	<u> 24</u> SURVEYORS	
<u> 2</u> CADD OPERATORS	<u> 0</u> ELECTRICAL ENGINEERS	<u> 0</u> MINING ENGINEERS	<u> 0</u> TRAFFIC ENGINEERS	
<u> 0</u> CHEMICAL ENGINEERS	<u> 7</u> ENVIRONMENTALISTS	<u> 0</u> PHOTOGRAMMETRISTS	<u> 14</u> OTHER - Drillers	
<u> 15</u> CIVIL ENGINEERS	<u> 0</u> ESTIMATORS	<u> 0</u> PLANNERS: URBAN/REGIONAL	<u> 5</u> OTHER – Bus Development	
<u> 43</u> CONSTRUCTION INSPECTORS	<u> 11</u> GEOLOGISTS	<u> 2</u> SANITARY ENGINEERS	<u> 6</u> OTHER – Laboratory	
<u> 1</u> DESIGNERS	<u> 0</u> HISTORIANS	<u> 8</u> SOILS ENGINEERS	<u> 4</u> OTHER - Interns	
<u> 3</u> DRAFTSMEN	<u> 3</u> HYDROLOGISTS	<u> 0</u> SPECIFICATION WRITERS		
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 1				
*RPEs other than Civil must provide supporting documentation that qualified them to supervise and perform this type of work.				
10. IF SUBMITTAL IS BY JOINT-VENTURE, LIST PARTICIPATING FIRMS & OUTLINE SPECIFIC AREAS OF RESPONSIBILITY (INCLUDING ADMINISTRATIVE, TECHNICAL & FINANCIAL) FOR EACH FIRM. (Each participating Firm Must Complete a "Consultant Confidential Qualification Questionnaire" If a copy is Not On File With The Division). N/A				
10a. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO				

12. Is your firm experienced in the oversight and inspection of solid waste landfill closure construction?

YES Description and Number of Projects:

- Triad has provided oversight and inspection including QA/QC liner materials testing on Solid Waste Landfill Closure Cap Construction for the successful closure of 15 landfill projects over the last 25 years.

NO

B. Is your firm experienced in oversight and inspection of leachate storage tank system installations?

YES Description and Number of Projects:

- Triad has provided oversight and inspection of leachate storage tank system installations on Solid Waste Landfill Construction on 15 landfill projects over the last 25 years.

NO

C. Does your firm have experience regarding mining reclamation sites?

YES Description and Number of Projects:

- Since Triad's inception in 1975, we have performed remedial design, geotechnical investigations, and quality control testing and inspection of hundreds of mining reclamation sites.

NO

D. Is your firm experienced in writing certification reports for quality control activities:

YES Description and Number of Projects:

- On all projects where Triad has performed QA/QC activities, we were responsible for generating final completion and certification reports. These reports contained summaries of all landfill construction activities, copies of all daily field reports, and the results of all field and laboratory tests. We have written final completion and certification reports on 22 landfills over the last 25 years.

NO

E. Can you please describe your QA/QC protocols?

YES Description and Number of Projects:

- Triad always performs QA/QC testing and inspection in strict accordance with the specifications and Quality Assurance/Quality Control plan for each specific project. Triad has provided these services on 22 landfills over the last 25 years.

NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES Responsible for QA/QC of Landfill Closure Construction (describe project)
 (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Initial)	YEARS OF EXPERIENCE		
	YEARS OF (type) EXPERIENCE:	YEARS OF (type) EXPERIENCE:	YEARS OF (type) EXPERIENCE:
Moulton, Randy L. Principal Engineer Regional Manager	Principal Engineer - 6	Senior Management/Engineer - 20	Staff Engineer/Project Engineer - 14

Brief Explanation of Responsibilities:

Mr. Moulton is responsible for corporate contract administration, risk management and overall quality control and technical quality assurance of projects undertaken by the company. Specific technical activities include preparation of geotechnical proposals, review and/or preparation of subsurface exploration programs, evaluation of geotechnical data and review and preparation of detailed geotechnical reports. Technical specialties also include design of deep foundations, in particular rock-socketed caissons, design of various types of retaining walls, evaluation of groundwater and seepage problems, and design of earth and earth-rock dams.

Mr. Moulton has been responsible for managing design of corrective measures at four sanitary landfills under the Landfill Corrective Action Program (LCAP) in West Virginia and characterization and design of remedial measures for an old landfill in Virginia.

EDUCATION (Degree, Year, Specialization)

- BS Civil Engineering, 1976, Civil Engineering
- MS Civil Engineering, 1980, Geotechnical Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)	
Geoprofessional Business Association (GBA) WV Academy of Civil Engineers	P.E., 1982, WV P.E., 1989, VA P.E., 1987, MD P.E., 1989, PA	P.E., 2014, OH P.E., 2014, IL P.E., 1998, NC

13a. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES Responsible for QA/QC of Landfill Closure Construction (describe project)
 (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Initial)	YEARS OF EXPERIENCE		
	YEARS OF (type) EXPERIENCE:	YEARS OF (type) EXPERIENCE:	YEARS OF (type) EXPERIENCE:
Campbell, Benjamin G. Senior Engineer	Senior Engineer - 1	QA/QC Services Manager - 6	Staff Engineer / Project Engineer - 5

Brief Explanation of Responsibilities:

Mr. Campbell has over 11 years of engineering experience, with more than six years as a QC / Construction Services Manager. He is responsible to Triad's Geotechnical Engineering Services projects and supports the Construction Field and Laboratory Services projects. Mr. Campbell is responsible for performance of geotechnical investigations, assessments, and evaluation of exploration results, foundation recommendations and reporting, laboratory testing, field inspections, and special inspections.

EDUCATION (Degree, Year, Specialization)

- AA, 2000, Civil Engineering
- BS, 2007, Civil Engineering
- MS, 2009, Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
ASHE, NSPE, ASCE	P.E., 2013, WV P.E., 2017, PA

13b. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES Responsible for QA/QC of Landfill Closure Construction (describe project)

(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Initial)	YEARS OF EXPERIENCE		
Kennedy, Allan D. QC / Construction Services Manager	YEARS OF (type) EXPERIENCE: QC/QA Manager – 2 months	YEARS OF (type) EXPERIENCE: QC/QA Supervisor – 2 years	YEARS OF (type) EXPERIENCE: Engineering Technician – 20 years

Brief Explanation of Responsibilities:
 Mr. Kennedy has worked in the QA/QC department with Triad Engineering for 23 years. He has provided QA / QC services including field tests for soils, asphalt and aggregate compaction, concrete placements, mortar and grout testing, and structural bolt testing for numerous private industry and government / public sector clients including coal / energy companies and the WV Department of Highways. Mr. Kennedy has experience in conducting soil foundation and rebar and subgrade inspections. He is knowledgeable in most laboratory testing procedures for soil, concrete and aggregates. He has been involved with a variety of construction projects throughout his career which enables him to read plans and specifications, complete clear and thorough field reports, and organize and manage on-site as needed to complete inspection tasks. He has maintained a leadership role in Triad's QC/QA department for over two years.

EDUCATION (Degree, Year, Specialization)
 High School Diploma

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
N/A	APNGA: HazMat Portable Nuclear Gauges WVDCH: Soil Compaction Inspector, Portland Cement Concrete Inspector MSHA: Impoundments, Surface Coal Mine Operations American Concrete Institute: ACF Concrete Strength Testing Technician ACI: Concrete Strength / Lab / Field Testing

13c. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES Responsible for QA/QC of Landfill Closure Construction (describe project) (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Initial)	YEARS OF EXPERIENCE		
Blake, Danny T. Laboratory Services Manager	YEARS OF (type) EXPERIENCE: Laboratory Manager – 25 years	YEARS OF (type) EXPERIENCE: Engineering Technician – 7 years	YEARS OF (type) EXPERIENCE: DOH Field Technician – 3 years

Brief Explanation of Responsibilities:
 Mr. Blake has over 32 years of diversified experience performing and providing QA/QC construction monitoring and inspection and materials testing services for Triad Engineering. He has been a technician and supervisor for over 25 years gaining comprehensive project experience in all phases of construction and earthwork including infrastructure, highway, bridge, and building development. Mr. Blake has extensive experience in field work including monitoring and performance of compaction testing, steel inspections, concrete testing and verification of work completion according to plans and specifications. Currently, Mr. Blake leads Triad's regional materials testing laboratory providing testing services and oversight for geotechnical engineering and construction projects involving soils, aggregates, concrete and asphalt.

EDUCATION (Degree, Year, Specialization)
 AS, 1984, Building Construction Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	APNGA: HazMat Portable Nuclear Gauges WVDCH: Aggregate Technician, Portland Cement Concrete Inspector NICET: Level II Construction Materials Testing: Soil & Concrete; Level III Geotechnical Laboratory Testing ASCET: Soil, Concrete & Asphalt Technician

13d. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES Responsible for QA/QC of Landfill Closure Construction (describe project)
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Initial)	YEARS OF EXPERIENCE		
	YEARS OF (type) EXPERIENCE:	YEARS OF (type) EXPERIENCE:	YEARS OF (type) EXPERIENCE:
Mercer, John K. Engineering Technician I	Engineering Technician – 3 years	N/A	N/A

Brief Explanation of Responsibilities:

Mr. Mercer has general experience in civil engineering, construction monitoring, and materials testing. His experiences include field and laboratory testing of soil aggregate, and concrete. He has the ability to read plans and specifications and write clear field reports. Mr. Mercer is familiar with most basic laboratory test procedures as well as sample collection, materials handling, and report preparation.

EDUCATION (Degree, Year, Specialization)
AS, 2015, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
N/A	APINGA: HazMat Portable Nuclear Gauges WVDOH: Aggregate and Soil Compaction Inspector, Portland Cement Concrete Inspector, Aggregate Sampling ACI: Concrete Field Testing Technician, Aggregate Testing Technician

13e. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES Responsible for QA/QC of Landfill Closure Construction (describe project)
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Initial)	YEARS OF EXPERIENCE		
	YEARS OF (type) EXPERIENCE:	YEARS OF (type) EXPERIENCE:	YEARS OF (type) EXPERIENCE:
McFann, Michael S. Engineering Technician I	Engineering Technician – 2.5 years	N/A	N/A

EDUCATION (Degree, Year, Specialization)
High School Diploma

Brief Explanation of Responsibilities:

Mr. McFann is experienced in construction materials testing, monitoring, and inspection including field and laboratory testing of soil, aggregate, concrete, and asphalt. He has the ability to read plans and specifications and write clear field reports. Mr. McFann is knowledgeable in most basic laboratory test procedures as well as sample collection, materials handling, and report preparation.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	APNGA: HazMat Portable Nuclear Gauge WVDOH: Aggregate and Soil Compaction Inspector, Asphalt Field Technician, PCC Inspector ACI: Concrete Field Testing

13f. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES Responsible for QA/QC of Landfill Closure Construction (describe project)

(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Initial)	YEARS OF EXPERIENCE		
Posey, Christopher M. Senior Engineering Technician	YEARS OF (type) EXPERIENCE: QC Services Supervisor – 2 years	YEARS OF (type) EXPERIENCE: Senior Engineer Technician – 9 years	YEARS OF (type) EXPERIENCE: Engineering Technician – 4 years

EDUCATION (Degree, Year, Specialization)

General Studies 1998

Brief Explanation of Responsibilities:

Mr. Posey is responsible for construction testing and inspections for various projects located throughout the mid-Atlantic region. He performs such inspections as asphalt, soils, and aggregate compaction testing, concrete testing, masonry, spray-on-fire resistive materials, foundation, structural and reinforcement steel inspections. Mr. Posey has experience with performing non-destructive testing such as Windsor probe, floor flatness and reinforcement steel inspection using a cover meter. He performs periodic thorough masonry inspections, to include compliance of material and reinforcement steel placement with project drawings and specifications and testing of mortar and grout materials for various projects. He is detailed oriented and performs various third-party/special inspector for many Counties throughout Virginia and West Virginia, capable of performing, pre-blast inspections, blast monitoring, floor flatness testing and caisson inspections and has extensive experience in FAA and WVDOH projects. His role as the QC services supervisor includes daily scheduling of QC department personnel, maintenance and calibration of testing equipment and monitoring skills, licensing, and certifications of the field technicians

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**REGISTRATION (Type, Year, State)**

HazMat Nuclear Density Gauge Safety

ACI: Field Concrete

WVDOH: PCC Inspector, Aggregate Sampling Inspector, TRET

VDOT: HCC Field, Soils & Aggregate Field, Asphalt Field

NCPCCI: IBC Building General

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

City of Elkins Landfill Construction QA/QC

Each Triad office maintains secure computer networks to support CADD functions, hydrogeologic evaluations, water balance modeling, roadway design, storm water management and surface water drainage design, stability analyses, risk assessment, survey data reduction, and mapping. These broad in-house capabilities give us better control over project schedule, quality, and cost, thereby minimizing problems that can occur during the various contract phases.

Field equipment which will be used includes nuclear density gauges for in-place moisture-density testing of compacted soils and concrete testing. Each office maintains an AASHTO accredited laboratory for testing of soils and other construction materials.

Triad's Mobile Business Application provides the capabilities of electronic reporting procedures. Triad's personnel have the ability to submit inspection and testing reports prior to leaving the project site. Project Managers are able to review these reports and submit PDF versions of customizable reports to our clients within 24 hours via email.

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD ASSOCIATED WITH OR RELATING TO LANDFILL CLOSURE OR CONSTRUCTION.

PROJECT NAME TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
N/A				
TOTAL NUMBER OF PROJECTS: #			TOTAL ESTIMATED CONSTRUCTION COSTS: \$	

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS RELATING TO LANDFILL CLOSURE AND CONSTRUCTION.

PROJECT NAME TYPE, AND LOCATION	NATURE OF FIRM'S RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRM'S RESPONSIBILITY
N/A					

17. COMPLETED WORK WITHING LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD (List 5 to 7)				
PROJECT NAME TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Momentive Landfill #1 Friendly, WV Inspection	Momentive Performance Materials 10851 Energy Highway Friendly, WV 26146	\$2,900	2018	Yes
Settlement Inspection and Annual Inspection		\$5,500	2016	Yes
Assess storm water run on		\$12,100	2015	Yes
LCAP Above Ground Storage Tank Inspection and Certification for 28 above ground storage tanks	WV DEP 601 57 th Street Charleston, WV	\$124,706	2017	Yes
Annual Mine Certifications & Testing • Harrison County Mine • Marion County Mine • Monongalia Co Mine	Harrison County Coal Co Marion County Coal Co Monongalia County Coal Co	\$51,817 \$15,776 \$14,718	Annual	Yes – Annual
Bailey Mine Refuse Compaction Testing	Consol Coal Company 1000 Consol Energy Drive Canonsburg, PA	\$20,480	2018	In progress
Landfill Mixing Building Mannington, WV Testing & Inspection Services	Consol Coal Company 1000 Consol Energy Drive Canonsburg, PA	\$155,064	2013	Yes
Bleeder Fan Proposal Ohio County Geotechnical Exploration	Ohio Co Coal 46226 National Road St. Clairsville, OH	\$5,218	2017	Yes
Bailey Prep Plant Overland Conveyor Richhill Township, PA	Consol Coal Company 1000 Consol Energy Drive Canonsburg, PA	\$15,182	2016	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS IN WHICH YOUR FIRM HAS BEEN A SUBCONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK WHICH YOUR FIRM WAS RESPONSIBLE) LIST 5 TO 7

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
Rocky Gap Water Facility Inspection	Rocky Gap State Park 12900 Lake Shore Drive Flintstone, MD	\$14,013	2014	Yes	Carl Belt, Inc. PO Box 1210 Cumberland MD
Shenandoah County Landfill Phase III QC/QA	Shenandoah County Landfill Landfill Road Edinburg, VA	\$4,919	2016	Yes	SCS Engineers 11260 Roger Bacon Drive Reston, VA
Survey	Goff Mountain Landfill Nitro, WV	\$5,514	2018	Yes	Bayer Cropscience LP Route 25 Institute, WV
Design & Construction, Survey, Construction Services		\$65,306	2014	Yes	
Construction Stakeout		\$29,924	2015	Yes	
Drilling / Geo		\$9,673	2015	Yes	
Leachate Removal System – Drilling / Environmental / Geo		\$24,984	2017	Yes	
Leachate Plant Expansion – Survey		\$49,636	2017	Yes	
Drilling	Washington County Landfill Washington County, WV	\$3,500	2018	Yes	SCS Field Services 3900 Kilroy Airport Way Long Beach, CA
Drilling – Abandoned Mine	Royal Coal Company Fayette Co, WV	\$18,120	2016	Yes	Tetra Tech, Inc. 661 Anderson Drive Pittsburgh, PA
Cooling Tower Repairs Maidsville, WV	First Energy Corp Maidsville, WV	\$142,917	2017	Yes	Pullman Power, LLC 6501 E. Commerce Ave Kansas City, MO

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the WV Department of Environmental Protection.

Since Triad's inception in 1975, we have specialized in geotechnical engineering and construction services (QA/QC). Triad's history is extensive throughout the mid-Atlantic region, and in particular in West Virginia. Mr. Moulton, Triad's Principal Engineer, has been responsible for managing design of corrective measures at four sanitary landfills under the Landfill Corrective Action Program (LCAP) in West Virginia and characterization and design of remedial measures for an old landfill in Virginia. Triad's Environmental personnel have worked extensively with the WV DEP in Brownsfield reclamations and other environmental issues.

20. The forgoing is a statement of facts

Signature:

Title

Benjamin G. Campbell

Date: May 22, 2018

Printed

Name: Benjamin G. Campbell, P.E.



ATTACHMENT #2

PERSONNEL RESUMES

RANDY L. MOULTON, P.E.....	1
BENJAMIN G. CAMPBELL, P.E.....	2
ALLAN D. KENNEDY	3
DANNY T. BLAKE	4
MICHAEL S. MCFANN.....	5
JOHN K. MERCER	6
CHRISTOPHER M. POSEY	7



EDUCATION

West Virginia University
MS, Civil Engineering
BS, Civil Engineering

PROFESSIONAL EXPERIENCE

38 Years

REGISTRATIONS & LICENSES

Professional Engineer

- P.E. Pennsylvania
- P.E. Virginia
- P.E. Maryland
- P.E. West Virginia
- P.E. Ohio
- P.E. Illinois
- P.E. North Carolina
- NCEES Record #48919

SKILLS

- Geotechnical Analysis & Reporting
- Construction Materials Testing & Inspections
- Rock-socketed Caisson Design
- Groundwater & Seepage
- Earth and Rock Dams
- Landfills

PROFESSIONAL AFFILIATIONS

- Geoprosessionals (GBA)
- WV Academy of Civil Engineers

HIGHLIGHTS OF EXPERIENCE

Mr. Moulton is a Principal Engineer for Triad Engineering, Inc. In this capacity, he has the responsibility for corporate contract administration, risk management and overall quality control and technical quality assurance of projects undertaken by the company. Specific technical activities include preparation of geotechnical proposals, review and/or preparation of subsurface exploration programs, evaluation of geotechnical data and review and preparation of detailed geotechnical reports. Mr. Moulton has also been responsible for managing design of corrective measures at three sanitary landfills under the Landfill Corrective Action Program (LCAP) in West Virginia and characterization and design of remedial measures for an old landfill in Virginia

RELEVANT PROJECT EXPERIENCE

Morgan County Landfill, Morgan County, WV

As Senior Engineer, Mr. Moulton served as Project Manager for design of permanent closure measures for this 17-acre landfill under the WVDEP LCAP program. The project included design of a leachate collection system, a leachate storage tank, a new permanent access road, a surface water collection system, two new stormwater management ponds and a final closure cap. The project required permitting through several state agencies and construction monitoring and materials testing services. Subsequent design work after the initial closure included corrective measures for erosion problems and enhanced soil amendments for revegetation.

Marion County Landfill, Marion County, WV

As Project Manager and Senior Engineer, Mr. Moulton provided the design of permanent closure measures for two (2) adjacent landfills under the WVDEP LCAP program. The project included design of a leachate collection system including two (2) leachate pump stations and a leachate storage tank, a new permanent access road, a surface water collection system, several new stormwater management ponds and a final closure cap. The project required permitting and construction monitoring and materials testing services.

Grant County Landfill, Petersburg, WV

Mr. Moulton served as Project Manager for several design projects for this LCAP facility. Initially was the design of interim corrective measures for fugitive leachate seeps, failing leachate collection lagoons, and inadequate stormwater management. Design of a leachate sewer system including two grinder pump stations, force main and gravity line to eliminate pump and haul expense and deliver leachate to the local sewer system was provided. The final design and construction project included a permanent closure cap, additional leachate interceptor trenches, passive gas vents, and additional stormwater management facilities to comply with NPDES requirements.

New Shenandoah County Solid Waste Landfill, Shenandoah County, VA

As Principal Engineer, Mr. Moulton served as project manager for detailed geotechnical investigation of an area for construction of a new sanitary landfill situated in karst geologic terrain. Field explorations included test pits, conventional test borings, seismic refraction surveying, microgravity surveying and air-track probes to explore anomalies detected by geophysical methods. Work included design of preventative reinforcement measures for specific areas underlain by solutioning channels and seams so that the double liner system would remain intact in the event of subsidence. This was the first sanitary landfill proposed in a documented karst setting to be approved for construction by the Commonwealth of Virginia Department of Environmental Quality (DEQ).



EDUCATION

Marshall University
MS, Engineering

Fairmont State University
*BS, Civil Engineering
Technology*

Potomac State College
AA, Civil Engineering

PROFESSIONAL EXPERIENCE

11 Years

REGISTRATIONS & LICENSES

Professional Engineer

- West Virginia [REDACTED]
- Pennsylvania [REDACTED]

SKILLS

- Project Management
- Soils Classification
- Construction Materials Engineering & Testing

PROFESSIONAL AFFILIATIONS

- ASHE
- ASCE
- NSPE
- SAME Pittsburgh

HIGHLIGHTS OF EXPERIENCE

Mr. Campbell has over 11 years of engineering experience, with more than six years as a QC / Construction Services Manager. He is responsible to Triad's Geotechnical Engineering Services projects and supports the Construction Field and Laboratory Services projects. Mr. Campbell is responsible for performance of geotechnical investigations, assessments, and evaluation of exploration results, foundation recommendations and reporting, laboratory testing, field inspections, and special inspections.

RELEVANT GEOTECHNICAL / QC PROJECT EXPERIENCE

Rice Tonkin Cell Site, Doddridge County, WV

As project engineer, Mr. Campbell provided geotechnical exploration and initial foundation recommendations for this 320' tall, 3 leg lattice steel tower. Challenges included structural loadings and uplift relative to the bearing strata.

CONSOL Midstream Green Hills Slide, Morris Township, PA

As project engineer, Mr. Campbell provided geotechnical exploration for landslide repairs of an approximate 300 cubic yard slip along trunk line right of way. Mr. Campbell's responsibilities included supervision of the field exploration program, drilling inspection, logging of boring locations, and initial slide repair recommendations.

Unit 1 Cooling Tower Rehabilitation, Fort Martin, Madsville, WV

Mr. Campbell was responsible for the implementation and oversight of construction monitoring and materials testing services for this Cooling Tower repairs project. Primary services included visual inspection, observation of project repair operations, shotcrete and concrete testing, bond testing, reinforcing inspection, verification of CSP rating, clear cover, general repair prep, hammer sounding, photo-documentation of repair areas, repair methods including exterior through wall, interior partial depth, route and seal, and final visual inspections to address repair leaks and closeout.

Various Projects, Mt. Storm Power Plant, Mt. Storm, WV

Oversight of construction quality control testing services for various projects at the plant site including coal yard, settling ponds, filter structure, outfalls 015 & 012. Services included visual observation and inspection; soil and stone compaction; concrete & grout testing; reinforcing inspection.

Various Projects, Mylan Pharmaceuticals, Morgantown, WV

Mr. Campbell was responsible for the oversight of construction monitoring and materials testing services for various projects at the site including the 74 addition renovation, transformer pad, IPA tank truck containment and packaging hallway. Services included visual observation and inspection, soil compaction, concrete testing, and subgrade verification.

Allegheny Ballistics Laboratory, Rocket Center, WV

Mr. Campbell was responsible for overseeing construction monitoring and materials testing services for building construction of three new structures and site work. Services included concrete testing, floor flatness testing, subgrade verification, visual observation and inspection, and soil and stone compaction.



PROFESSIONAL EXPERIENCE
22 Years

CERTIFICATIONS:

WVDOH:

- Soil Compaction Inspector
- Portland Cement Concrete Inspector

MSHA:

- Impoundments
- 24-hour Surface Mine Operations

APNGA:

- HAZMAT Portable Nuclear Gauges

ACI:

- Concrete Strength Testing Level 1
- Concrete Lab Testing Level 1
- Aggregate Testing Level 1
- Field Concrete Testing Level 1

OSHA 10 hr. Construction

SKILLS

- Field & Laboratory Testing
- Compaction Inspection & Testing
- Impoundment Skill

HIGHLIGHTS OF EXPERIENCE

Mr. Kennedy has been an Engineering Technician with Triad Engineering for 20 years. He has provided QA / QC services including field tests for soils, asphalt and aggregate compaction, concrete placements, mortar and grout testing, and structural bolt testing for numerous private industry and government / public sector clients including coal / energy companies and the WV Department of Highways. Mr. Kennedy has experience in conducting soil foundation and rebar and subgrade inspections. He is knowledgeable in most laboratory testing procedures for soil, concrete and aggregates. He has been involved with a variety of construction projects throughout his career, which enables him to read plans and specifications, complete clear and thorough field reports, and organize and manage on-site as needed to complete inspection tasks. Mr. Kennedy has maintained a leadership role in Triad's QC/QA department for the past 2 years.

RELEVANT PROJECT EXPERIENCE

Concrete / Compaction Testing:

- WVDOH, Route 2 Widening – Ohio County, WV

Construction Monitoring & Materials Testing

- Benedum Airport Expansion, Clarksburg, WV
- Tygart Valley Regional Jail, Barbour County, WV

Mine Refuse Compaction Testing and Site Inspection:

- Bailey Mine, Green County, PA
- Harrison County Mine, Robinson Run, WV
- Monongalia County Mine, Blacksville #2, WV
- Marion County Mine, Loveridge, WV
- Federal #2 Mine, Monongalia County, WV
- Ohio County Mine, Shoemaker, WV
- Marshall County Mine, McElroy, WV
- Sentinel Mine, Barbour County, WV
- Mt. Storm Power Station, Grant County, WV
- Mettiki Mine, Oakland, MD

Quarterly / Annual Impoundment Inspections:

- Harrison County Mine, (formerly) Robinson Run, WV
- Monongalia County Mine, (formerly) Blacksville #2, WV
- Marion County Mine, (formerly) Loveridge, WV
- Ohio County Mine, (formerly) Shoemaker, WV
- Marshall County Mine, (formerly) McElroy, WV
- Mettiki Mine, Oakland, MD
- Robena Mine, PA
- Small to moderate impoundments at other mine locations and AMD facilities

Impoundment Quality Control – performed Quality Control testing and observation for construction of the following impoundments:

- Harrison County Mine Slurry Cell, WV
- Bailey Mine, WV



EDUCATION

Cerrett County Community College
AS, Building Construction Technology

PROFESSIONAL EXPERIENCE
35 Years

CERTIFICATIONS

WVDOH:

- Aggregate Technician
- Portland Cement Concrete Inspector

APNGA

- HAZMAT Refresher, Portable Nuclear Gauges

West Virginia:

- Certified Hazardous Materials Manager

NICET:

- Level II Construction Materials Testing, Soil & Concrete
- Level III Geotechnical Laboratory Testing

ASCET:

- Soil, Concrete & Asphalt Technician

SKILLS

- Field & Laboratory Testing & Monitoring
- Geotechnical Engineering and Construction Testing

HIGHLIGHTS OF EXPERIENCE

Mr. Blake has over 32 years of diversified experience performing and providing QA/QC construction monitoring and inspection and materials testing services for Triad Engineering. He has been a technician and supervisor for over 25 years gaining comprehensive project experience in all phases of construction and earthwork including infrastructure, highway, bridge, and building development. Mr. Blake has extensive experience in field work including monitoring and performance of compaction testing, steel inspections, concrete testing and verification of work completion according to plans and specifications. Currently, Mr. Blake leads Triad's regional materials testing laboratory providing testing services and oversight for geotechnical engineering and construction projects involving soils, aggregates, concrete and asphalt.

RELEVANT PROJECT EXPERIENCE

West Virginia Department of Highways (WVDOH), Various Locations

As a former WVDOH Inspector, Mr. Blake has provided construction monitoring and inspections, field materials testing, and/or laboratory testing services for WVDOH projects for over 30 years. As Triad's Laboratory Services Manager, Mr. Blake conducts laboratory testing for QC projects and for the firm's geotechnical engineering services. Some of his recent projects include, but are not limited to:

- Hartman Run Road Bridge, Monongalia County
- Evansville Road, Barbour County
- Kasson Dent Road, Harrison County
- Rt. 250 Mannington, Marion County
- West Farmington Road, Marion County
- River Road Slide, Monongalia County
- Monongalia County / I-79 Welcome Center

West Virginia University, Morgantown, WV

Mr. Blake has provided services for WVU projects for over 30 years. Some of his recent projects include, but are not limited to:

- Mountaineer Field (Construction, Expansion, Upgrades to Field and Facilities)
- Basketball Practice Facility (Construction)
- Downtown Residence Hall (Construction)
- Evansdale Greenhouse (Construction)
- Women's Soccer Practice Facility (Construction)
- Nursery School / Day Care Facility (Construction)
- Brooks and White Halls (Renovations)
- Mountaineer Station (Construction)

West Virginia Statewide Agreement, Districts 1 and 4

Served as Laboratory Manager and Senior Engineering Technician for a statewide contract with the WVDOH, for which we provided construction monitoring, inspections, field and laboratory testing, and data entry on an as-needed, per project basis. Triad was awarded the Department of Highways Engineering Excellence Award in the category of Construction Inspection for the years 2002, 2004 and 2007.



EDUCATION

Fairmont State University
AS, Civil Engineering

PROFESSIONAL EXPERIENCE

3 Years

CERTIFICATIONS

WVDOH:

- Aggregate and Soil Compaction Inspector
- Portland Cement Concrete Inspector
- Aggregate Sampling

APNGA:

- HAZMAT Refresher, Portable Nuclear Gauges

ACI:

- Concrete Field Testing Technician, Level 1
- Aggregate Testing Technician, Level 1

Triad Engineering

- Confined Spaces Training

OSHA 10

SKILLS

- Field & Laboratory Testing
- Soils & Foundations Testing
- Concrete Testing

HIGHLIGHTS OF EXPERIENCE

Mr. Mercer has general experience in civil engineering, construction monitoring, and materials testing. His experiences include field and laboratory testing of soil aggregate, and concrete. He has the ability to read plans and specifications and write clear field reports. Mr. Mercer is familiar with most basic laboratory test procedures as well as sample collection, materials handling, and report preparation.

RELEVANT PROJECT EXPERIENCE

Concrete / Compaction Testing

- Suncrest Elementary School, Morgantown, WV
- Sheetz Convenience Store, University Avenue, Morgantown, WV
- The Meadows, Mountain Lake Park, MD
- Veteran's Administration National Cemetery, Grafton, WV
- Pierpont Hotel, Morgantown, WV
- Donnie Thome Highwall, Preston County, WV
- Morgan Highwall, Preston County, WV
- Department of Energy, National Energy Technology Laboratory, Morgantown, WV
- Freedom Kia, Clarksburg, WV
- Freedom Automotive / VW / Ford / Kia, Granville, WV
- Maintenance Building, Lonaconing, MD
- PSD Wastewater Treatment Plant Upgrades, West Milford, WV
- South Cumberland Library, Cumberland, MD
- Barton Business Park Shell Building, Allegany County, WV
- Wallace Fire Department, Wallace WV
- Mako for EQT, Amity, PA
- Mylan 74 Addition Renovation, Morgantown, WV
- Pettit Landslide Remediation, Center Township, PA
- Sunrise Interconnect, Mobley, WV

Core Drilling and Concrete Testing

- West Virginia University, Milan Puskar Stadium, Morgantown, WV

Construction Monitoring

- Marion County Landfill, Farmington, WV

Penetrometer and Concrete Testing

- Jefferson Building, Jefferson, PA
- West Virginia University, Practice Facility, Morgantown, WV

Compaction, Concrete Observation, Rebar Inspection, Pyrite Remediation Observation

- FBI CJIS BTC, Data Center, Clarksburg, WV



PROFESSIONAL EXPERIENCE
2 Years

CERTIFICATIONS:
WVDOH:

- Aggregate and Soil Compaction Inspector
- Asphalt Field Technician
- PCC Inspector

ACI:

- Concrete Field Testing Technician Grade I

APNGA:

- Portable Nuclear Gauge Safety USDOT HAZMAT Refresher

OSHA 10

- CNX Gas Training
- Rice Energy Training

SKILLS HIGHLIGHTS

- Field & Laboratory Testing
- Soils & Foundations Testing
- Concrete Testing

HIGHLIGHTS OF EXPERIENCE

Mr. McFann is experienced in construction materials testing, monitoring, and inspection including field and laboratory testing of soil, aggregate, concrete, and asphalt. He has the ability to read plans and specifications and write clear field reports. Mr. McFann is knowledgeable in most basic laboratory test procedures as well as sample collection, materials handling, and report preparation.

RELEVANT PROJECT EXPERIENCE

Concrete / Compaction Testing / Observation

- WVU Reedsville Farm, Reedsville, WV
- Oakmound Waldo Run, Salem, WV
- Masontown STP, Masontown, WV
- Piedmont Wastewater Treatment Plant, Piedmont, WV
- Charles Street Pump Station, Myersdale, PA
- Pierpont Hotel, Pierpont, WV
- Freedom Automotive / VW, Ford, Kida, Granville, WV
- Mylan 74 Addition Renovation, Morgantown, WV

Core Drilling Concrete and / or Asphalt

- West Virginia University Stadium Expansion, Morgantown, WV
- McMurray Elementary School, McMurray, PA
- Old First Community Bank, Grafton, WV

Construction Monitoring / Field Laboratory Testing

- West Virginia University Practice Field, Morgantown, WV
- Elm Grove Bridge, Wheeling, WV
- Marion County Landfill, Farmington, WV
- West Virginia University Stadium Expansion, Morgantown, WV

Penetrometer and Concrete Testing

- West Virginia University Practice Field, Morgantown, WV

Micropile Observation, Concrete Testing, Rebar Inspection, Grout Inspection

- Harrison County Power Station, Shinnston, WV
- University of Pittsburgh Medical Center, Pittsburgh, PA

Bearing Checks, Concrete Observation, and/or Rebar Observation

- Transformer Pad, Lonaconing, MD
- Brookhaven Elementary School, Morgantown, WV
- Suncrest Elementary School, Morgantown, WV
- West Virginia University Soccer Field, Morgantown, WV



EDUCATION

Lord Fairfax Community
College
General Studies

PROFESSIONAL EXPERIENCE

14 Years

CERTIFICATIONS

Nuclear Density Gauge
Radiation Safety

WVDOH:

- Compaction Technician
- Aggregate Sampling Inspector

ACI:

- Concrete Field Technician
Grade 1

VDOT:

- Soils and Aggregate Field
Commonwealth of VA

- BHCD Commercial
Building Inspector

ICC

- Building General 1B

SKILLS

- Construction Testing
- Construction Inspection

HIGHLIGHTS OF EXPERIENCE

Mr. Posey is a Senior Engineering Technician for Triad. In this capacity, Mr. Posey is responsible for construction testing and inspections for various projects located throughout the Mid-Atlantic region. Specifically, Mr. Posey is responsible for performing such inspections as asphalt, soils, and aggregate compaction testing, concrete testing, masonry, spray-on-fire resistive materials, foundation, structural and reinforcing steel inspections. Mr. Posey also has experience with performing non-destructive testing such as Windsor probe, floor flatness and reinforcing steel inspection using a cover meter. In addition, Mr. Posey performs periodic thorough masonry inspections, to include compliance of material and reinforcing steel placement with project drawings and specifications and testing of mortar and grout materials for various projects. He is a very detailed oriented individual who performs various third-party/special inspections for many Counties throughout Virginia and West Virginia, capable of performing pre-blast inspections, blast monitoring, floor flatness testing and caisson inspections and has extensive experience in FAA and WVDOH projects.

RELEVANT PROJECT EXPERIENCE

Bass Hoover Elementary School Addition, Stephens City, VA

Duties included inspections of asphalt, soils, and aggregate compaction testing, concrete testing, masonry, spray-on-fireproofing, foundation, slab and reinforcing steel inspections for a 10,000 square foot single story elementary school addition with partial basement, access road and utility alignments, paved parking areas and other appurtenances. Worked closely with Frederick County Public Schools Project Manager, general contractor and various subcontractors to verify work was being performed within the project drawings and specifications.

Sysco Regional Distribution Center, Warren County, WV

Work performed included footing inspections, slab inspections, concrete testing and compaction testing for a new warehouse.

Home Depot Rapid Response Center, Frederick County, VA

Work performed included footing, wall and slab inspections, structural steel inspection, compaction and concrete testing, and various other special inspections.

Wakefield School, Fauquier County, VA

Duties included inspection of rubble constructed retaining walls, controlled fill monitoring, SWM pond construction, asphalt pavement testing, concrete, mortar and grout sampling/testing and various other activities working as the owner's QA/QC agent for this project.

Winchester Medical Center – ODC, Winchester, VA

Work included extensive firestop inspections for this recently completed structure.

Tailings Pond "0" Impoundment, Utica, IL

Performed testing inspection services in relation to the Decant system for the initial project phase.