

Triad Engineering, Inc.

Expression of Interest



EOI - Lake (Bell) Portals
Engineering Design Services
CEOI DEP 190000003

10541 Teays Valley Road | Scott Depot, WV 25560

304-755-0721 | www.triadeng.com

RECEIVED

2018 SEP 12 AM 11:46

WV PURCHASING
DIVISION

TRIAD
TRIAD ENGINEERING, INC.



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 463772

Doc Description: EOI - Lake (Bell) Portals

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2018-08-16	2018-09-12 13:30:00	CEOI 0313 DEP1900000003	1

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

Triad Engineering, Inc.
 10541 Teays Valley Road
 Scott Depot, WV 25560
 Ph: 304-755-0721

FOR INFORMATION CONTACT THE BUYER

Brittany E Ingraham
 (304) 558-2157
 brittany.e.ingraham@wv.gov

Signature X

FEIN # 550592364

DATE 09/12/18

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Expression of Interest

Lake (Bell) Portals

The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, the Department of Environmental Protection, from qualified firms to provide architectural/engineering services to provide necessary engineering, and other related professional services to design and specify for construction as well as provide construction administration, for the Lake (Bell) Portals, per the bid requirements, specifications, terms and conditions as attached hereto.

*Online submissions of Expressions of Interest are prohibited.

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI Engineering Design Services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description :

*Dates of Service are estimated for bidding purposes only.

DEP1900000003	Document Phase Draft	Document Description EOI - Lake (Bell) Portals	Page 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

September 12, 2018

Brittany E. Ingraham
Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, West Virginia 25305

**RE: EOI – Lake (Bell) Portals & Drainage
Engineering Design Services
CEOI DEP190000003
TRIAD Proposal No. 04-18-0486**

Dear Ms. Ingraham:

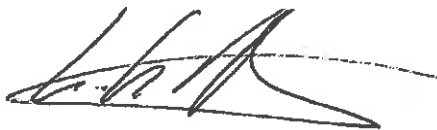
Triad Engineering, Inc. (Triad) is pleased to submit this Expression of Interest to provide engineering services and other related professional services to design and specify for construction as well as provide construction administration for the Lake (Bell) Portals.

We are confident that the enclosed documentation will illustrate how we will work with you to develop the best solutions for your needs. This information will allow you to understand our team's level of and expertise. As you can see from the attachments, Triad will provide all necessary services for your project.

We trust this submittal provides the information you require. Should you have any questions or require additional information, please contact the undersigned.

Very truly yours,

TRIAD ENGINEERING, INC.



**Larry "Lee" McCoy, PE
Civil Engineering Services Manager**



**David F. Meadows, PE, PS
Chief Technical Officer
Southwestern Regional Manager**

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COMPANY BACKGROUND

Triad Engineering, Inc. is a multi-disciplinary engineering firm based in the Mid-Atlantic region specializing in the areas of geotechnical engineering, civil and utility engineering, surveying, construction materials engineering and testing and inspection, environmental consulting services, drilling, and other earth science related disciplines. Since its founding in Morgantown, West Virginia in 1975, Triad has provided engineering consulting services on thousands of projects of varying size and complexity.

Triad currently maintains approximately 175 technically sound employees located in seven offices across five states. Our work force includes environmental scientists, geologists, hydrologists, civil, geotechnical and mining engineers, landscape architects, chemists, surveyors, trained Computer-Aided Design (CADD) draftsmen, field and laboratory technicians, drillers, and support personnel. We pride ourselves on a very low turnover rate, which adds to continuity and enhances the level of productivity and experience afforded by Triad.

With over 42 years of service in West Virginia and surrounding states, facilities and equipment available to support our staff have continued to evolve through the years to adapt to the changing needs of the market. We have developed a fleet of drill rigs and support vehicles to meet the needs of our field operations. Well-equipped material testing laboratories are maintained to provide support for our geotechnical engineering and construction monitoring projects.

Each office maintains 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 Triad better control over project schedule, quality and cost, thereby minimizing problems that can occur during the various contract phases

Scott Depot

10541 Teays Valley Road
Scott Depot, WV 25560
304-755-0721 Phone

Winchester

200 Aviation Drive
Winchester, VA 22604
540-667-9300 Phone

Morgantown

1097 Chaplin Rd.
Morgantown, WV 26501
304-296-2562 Phone

Pittsburgh

201 Penn Center Boulevard
Suite 400
Pittsburgh, PA 15235
412-257-1325 Phone

Northern Virginia

46040 Center Oak Plaza
Suite 180
Sterling, VA 20166
703-729-3456 Phone

Hagerstown

1075-D Sherman Avenue
Hagerstown, MD 21740
301-797-6400 Phone

Athens

1005 East State Street
Suite 10
Athens, OH 45701
740-249-4304 Phone

PROJECT OVERVIEW AND BRIEF APPROACH

Upon notice to proceed, Triad's Project Manager will review the work directive, discuss the project with WVDEP personnel and perform site visits to become familiar with the project and objectives. Available site information and data, such as results of previous borings, geologic reports, or old mine maps will be review. Based on this information, the Project Manager will plan the scope of work required to meet these goals and objectives:

The complaint is that water flowing from abandoned mine(s) is inundating church property and access roads, and possible adjacent properties. The focus is to abate the water discharging from the abandoned mines and openings.

- All mine openings are to be adequately sealed
- All disturbed areas are to be regraded and revegetated
- Design plans and develop specifications for site access
- Design plans and develop specifications for limits of disturbance, storm water control and erosion and sediment prevention
- Design plans and develop specifications for drainage channels, underdrains, and/or other controls to safely convey water off-site
- All disturbed areas are to be regraded and revegetated
- Design plans and develop specifications for all conditions encountered on project site

QUALIFICATIONS

Triad has assembled a team of individuals with broad experience to bring unmatched knowledge and expertise to your project. The professional staff assigned to this project possesses the necessary and exceeding qualifications in their areas of proficiency.

Our principal in charge, **David F. Meadows, PE, PS**, brings over 40 years of leadership, design construction and project management experience to Triad Engineering as the Southwestern Regional Manager and Chief Technical Officer. Prior to coming to Triad in 2013, Mr. Meadows served a number of technical and leadership positions at the US Army Corps of Engineers, Huntington District. His expertise includes civil design, geotechnical engineering, construction management, surveying, environmental remediation and water resources engineering.

Larry "Lee" McCoy, PE, is the Civil Engineering Design Department Manager for the Scott Depot office of Triad. Mr. McCoy has designed and managed projects in numerous disciplines including civil, structural and transportation engineering, site development, planning and surveying. Mr. McCoy has been responsible for numerous AML designs throughout Southern West Virginia that included grading, drainage, sealing of mine portals (wet & dry), and all aspects related to the closure and reclamation of pre-law mining sites. Mr. McCoy also has extensive experience in projects including streets/highways, bridges, retail/commercial site preparation, airports, parking lots, buildings, retaining walls/foundations, sanitary structures, as well as recreational facilities.

Heather Metz, LRS, is the Environmental Services Manager and Senior Environmental Scientist at the Scott Depot office of Triad. Ms. Metz has worked as a Program Manager for the West Virginia Department of Environmental Protection for performing various assessment tasks at USEPA Superfund sites in West Virginia and implemented the WVDEP Statewide Hazardous Brownfield Assessment Grant program. Additionally, Ms. Metz is a Licensed Remediation Specialist (LRS) and performs a variety of tasks for sites in the West Virginia Voluntary Remediation Program (VRP).

Daniel Lipscomb, PE, is the Geotechnical Engineering Services Manager at the Scott Depot office of Triad. Mr. Lipscomb has been involved in development and management of subsurface exploration projects and development of geotechnical engineering reports providing recommendations based on field observations and laboratory results for bearing capacity, earthwork operations, earthen dam embankments, slope stability, flexible and rigid pavement design, lateral earth pressures, sinkhole remediation, geophysics (electrical resistivity and ground penetrating radar), and rock excavation. These projects have included freshwater dams, shopping centers, roadway/bridges, buildings, retaining walls, residential communities, water storage tanks, waste water treatment facilities, and structures for coal mining facilities. Mr. Lipscomb has additional experience in areas relating to civil site design, hydrologic and hydraulic design, grading plans, water line plans, sewer line plans, hydraulic calculations, storage tank sizing, booster station design, roadway layout and design, storm water management plans, technical specifications, environmental and regulatory permitting, blast monitoring, and construction quality control.

Jobe Hope is the Field Services Manager for the Scott Depot office of Triad. In this capacity he oversees the field staff, by handling calls from technicians on technical matters, staffing and scheduling and serving as the branch RSO. Mr. Hope also handles and in house QA/QC, schedules training classes, keeps all records of inspections and calibrations. In addition, he also writes proposals for perspective jobs, assigns new jobs and lab work and writes all QC plans.

The roles of our most qualified personnel are illustrated on our organizational chart and discussed in the attached resumes provided in Attachment C.

MANAGEMENT AND STAFFING

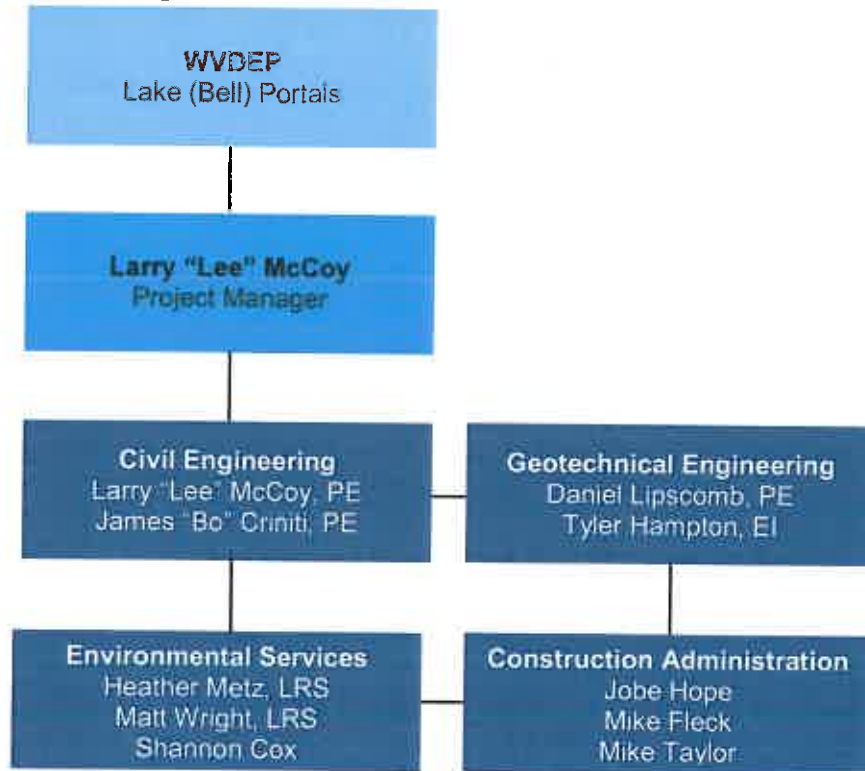
Engineers

All of the engineers who will provide services for this project are registered professional engineers and are in good standing.

Professional Liability Insurance

Triad Engineering, Inc. carries Errors and Omissions Professional Liability Insurance through Architects and Engineers Insurance Company of Winchester, Virginia.

Project Organizational Chart



Experience and Expertise

All of the information under the *Related Prior Experience* tab will clearly show that Triad has extensive experience in similar projects. After examining the materials provided, the Triad team assembled for this project will show the expertise necessary to complete this particular project.

Capacity to Perform Project Scope

Triad provides a full range of in-house services including designing, surveying, drilling and testing, construction monitoring and environmental

services. Our company maintains a staff of approximately 175 technically sound employees. Our footprint stretches across seven offices in five states where, should the need arise, we can call upon those resources at any time.

SUMMARY

Triad Engineering, Inc., (Triad) proposes to perform surveying, geotechnical and other engineering services in order to develop engineering drawings, contract specifications and other contract documents as may be required for the letting of construction for the Lake (Bell) Portals Design Project. Factors that make Triad a strong candidate for consideration include:

- Past experience & complete familiarity with AML&R projects
- In-house capabilities
- Experienced professional and support personnel
- Totally employee owned and operated West Virginia firm
- Strong geotechnical background
- Outstanding laboratory facilities
- Expeditious & economical mobilization of drilling rigs, equipment and personnel
- Experience in major design projects

Triad has completed over 400 projects for the DEP under various contracts. Each project has involved various areas of expertise and problem types. In addition to DEP related projects, Triad has successfully completed major design projects for other government agencies, large coal mining concerns, chemical manufacturers, developers, and various other clients. Triad's direct responsibilities in these projects have included, but were not limited to:

- Permit Applications
- Surveying and Mapping
- Geotechnical Investigations and Analyses
- Hydrology and Hydraulics
- Design Development and Drawings
- Construction Specifications
- Construction Bid Packages
- Construction Observation and Monitoring
- Construction Management

ATTACHMENT A
AML Consultant Qualification Questionnaire

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

NAME AND ADDRESS: <p style="text-align: center;">N/A</p>	SPECIALTY: <p style="text-align: center;">N/A</p>	WORKED WITH BEFORE <p style="text-align: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </p>
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <p style="text-align: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </p>
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <p style="text-align: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </p>
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NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <p style="text-align: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </p>
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <p style="text-align: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </p>

12. A. Are your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

YES Description and Number of Projects: Triad has provided engineering and related services required for the successful completion of over 400 AML projects since the WVDEP gained primacy of the Program from the Office of Surface Mining. These projects have involved all problem types encountered on abandoned mine lands projects.
NO

B. Are your firm's personnel experienced in Soil Analysis?

YES Description and Number of Projects: Thousands of projects involving soil analysis have been performed since our inception in 1975. Our geotechnical materials testing labs are certified by the WVDOT/ DOH. _

NO

C. Are your firm's personnel experienced in hydrology and hydraulics?

YES Description and Number of Projects: Triad has completed hundreds of projects in the areas of hydrology and hydraulics since our inception. Clients include the U.S. Army Corps of Engineers, WVDEP, and WVDNR.

NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

YES Description and Number of Projects: Triad typically subcontracts the aerial photography. However, Triad lays out the targets in the field and conducts the survey for establishment of horizontal and vertical control used to develop the final contour mapping. It is estimated that we have completed several hundred of these types of mapping projects since the inception of the firm in 1975.

NO

E. Are your firm's personnel experienced in domestic waterline design? (Include any experience in evaluation of aquifer degradation as a result of mining.)

YES Description and Number of Projects: Our firm has completed a total of 10 waterline design projects including: Norton Harding Jimtown, Alkol Phase 1 and 2, 14 Mile, 10 Mile, 9 Mile, 6 Mile, Gatlin Coal Waterline Extension, Mason Phase 1 and 2, and Moorefield. Numerous Phase I and Phase II water feasibility studies have also been conducted.

NO

F. Are your firm's personnel experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects: Our firm has completed over 11 AMD designs ranging from active to passive treatment. These projects include: Kittle Flats, Childs Highwall and Portals, Martin Creek, Steadman AMD, Wayne Shreve Portals, Pumpkintown, Kingsville, & Mable Waterline Feasibility Study, Left Fork of Little Sandy, Tunnelton Mine Drainage, Brown Street Drainage, Blaser Highwall, Hawkins AMD, and Chief Logan State Park AMD.

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.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Meadows, David F., PE, PS Regional Manager	5	40	20

Brief Explanation of Responsibilities
 Mr. Meadows will serve as principal in charge. Mr. Meadows brings over 40 years of leadership, design and project management experience to Triad Engineering. Mr. Meadows joined Triad in 2013 to provide management to the southwest region which includes the southern West Virginia area and the Athens, Ohio office. Prior to coming to Triad he served in a number of technical and leadership positions at the US Army Corps of Engineers, Huntington District. His expertise includes civil design, geotechnical engineering, construction management, surveying, environmental remediation and water resources engineering.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, Civil Engineering, West Virginia Institute of Technology	1974
Masters of Science, General Engineering, WV College of Graduate Studies	1981
Masters of Engineering, Geotechnical Engineering, Virginia Polytechnic Institute & State University	1987

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
S.A.M.E., ASCE, United States Society on Dams, WV Association of Land Surveyors	Registered Professional Engineer, 1980, West Virginia Registered Professional Surveyor, 1996, West Virginia

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.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
McCoy, Larry L., Jr., P.E. Civil Department Manager/ Senior Engineer	3	13	4

Brief Explanation of Responsibilities
 Mr. McCoy is the responsible engineer for numerous projects including civil site, utilities, roadways, and AML remediation. Mr. McCoy has performed design tasks related to these projects which have included: stream restoration, portal/shaft closure, hydraulic/hydrologic analysis, AMD treatment design, grading, project specifications, project plans, and other related tasks. Mr. McCoy also served as project manager on these and several related projects.

EDUCATION (Degree, Year, Specialization)

BS/ 1996/ Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
ASCE	Registered Professional Engineer/2001/ WV Registered Professional Engineer/2007/ Ohio Registered Professional Engineer/2008/ Kentucky

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.) Criniti, James R. "Bo," P.E.	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 4	YEARS OF AML RELATED DESIGN EXPERIENCE: 6	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 4

Brief Explanation of Responsibilities: Mr. Criniti is a registered professional engineer and performs all facets of civil design and specification preparation including site development design, parking lot layouts, grading and drainage design and drainage studies. Other duties include permit application, AMD treatment design and retaining wall design.

EDUCATION (Degree, Year, Specialization)
B.A. / 1995 / Chemistry
B.S. / 2008 / Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
ASCE

REGISTRATION (Type, Year, State)
Registered Professional Engineer / 2017 / WV

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.) Lipscomb, Daniel H., P.E.	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 12	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities
Mr. Lipscomb has formulated and implemented subsurface investigations on landfills, roadway/bridges, and structures for coal mining facilities. Mr. Lipscomb's responsibilities include development and implementation of subsurface programs, analysis of subsurface conditions and preparation of final reports including conclusions and recommendations based on subsurface conditions and proposed site use.

EDUCATION (Degree, Year, Specialization)
BSCE / 2002 / Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
WVSPE
ASCE

REGISTRATION (Type, Year, State)
Registered Professional Engineer/2008/ WV

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.) Hampton, Tyler	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
	0	2	0

Brief Explanation of Responsibilities:
 Mr. Hampton is a Staff Engineer for the Geotechnical Engineering Department at the Scott Depot branch of Triad. He has been involved in laboratory testing, drill rig inspection, assisting the Geotechnical Project Manager in design and calculations and writing reports.

EDUCATION (Degree, Year, Specialization)
 BS, 2016, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State) E.I.T.
---	---

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

Equipment Listing

Drilling Equipment:

Track Mounted Rigs	3 - CME 55
All Terrain Drill Rigs	3 - CME 550 C
Truck Mounted Rigs	1 - CME 45C
Skid Mounted Rigs	1 - Diedrich D25
Transport Vehicles	2 - Peterbilt Tandem Axle Tiltbeds 1 - Peterbilt 378 Rollback 1 - Peterbilt 379L Road Tractor 1 - Peterbilt 379 Flatbed Tractor 1 - Military 5 Ton Water Truck 1 - Ford F550 Water Truck 10 - 4WD ¾ Ton Support Trucks 1 - Pontoon Boat 1 - Barge 1 - John Boat
Portable Drilling Equipment	1 - Motorized Cathead/Tripod Unit 2 - Handheld Sampling Equipment

Miscellaneous equipment includes Dutch cone Penetrometer, Mobile Grout Pump (Chem-Grout), Steam Jenny (Whitco), Steam Jenny (Hotsy), 600 CFM Air Compressor (Sulair), various size utility trailers.

Protective Clothing & Equipment-Complying with EPA & OSHA Regulations Air Purifying Respirators & Supplied Air Respirators

Equipment Listing

Continued – page 2

Drilling Tools:

- Hollow Stem Augers (2 ¼" I.D., 3 ¼" I.D., 4 ¼" I.D., 6 ¼" I.D.)
- Continuous Flight Augers
- NQ2 Core Equipment
- AW Core Equipment
- Pressure Testing Equipment
- Water Pumps, Trucks and Tanks
- Shelby-Tube Samplers (2", 3" and 5" Diameter)
- Split-Spoon Samplers (2" and 3" Diameter)
- CME Continuous 5.0' Length Samplers
- Longyear Casing Advancer (HQ)
- Downhole Hammer

Laboratory Equipment:

- Triaxial Compression Machine
- Manual Proctor Devices (standard and modified)
- Automatic Proctor Hammer
- Turbidimeter
- Hydrometer
- pH Tester (soil & water)
- Electronic Scales
- Unconfined Compression Machine
- Atterberg Limits Devices
- California Bearing Ratio Devices
- Electrical Resistivity Devices
- Specific Gravity Devices (soils & aggregates)
- 2000 Degree Fahrenheit Oven
- Permeability Cells & Panels
- Consolidometers

Equipment Listing

Continued – page 3

- Electronic Manometers
- Concrete Compressive Strength Equipment
- Aggregate Shakers
- Sieve Shakers
- Sample Splitters
- Unit Weight Buckets
- Slake Durability Machine
- Gradation Sieves
- L.A. Abrasion Test Equipment
- Soiltest Loading Devices
- Sodium Sulfate Soundness Test Equipment
- Asphalt Test Equipment
- Relative Density Determination Device

Field Testing Equipment:

Soil

- Nuclear Moisture/Density Gauges
- Sand Cone Equipment
- Support Compaction Testing Equipment
- Digitilt Slope Indicator
- Pocket Penetrometers
- Hand Augers
- Static Cone Penetrometers

Equipment Listing

Continued – page 4

Concrete

- Air Meters (pressure & volumetric)
- Slump Cones & Accessories
- Windsor Probes
- Rebound Hammers
- Concrete Core Drills & Accessories
- Concrete Slab Profiler

Water

- Pressure Transducer / Data Logger & Associated Software
- pH Meters
- Turbidity Meters
- Iron Test Kits
- Dissolved Oxygen Meter
- Water Test Kits

Structural Steel, Bolt, and Paint

- Torque Wrenches
- Magnetice Gauges
- Tooke Gauges
- Wet File Gauges
- Sling Psychrometers
- Dye Test Kits

Equipment Listing

Continued – page 5

Environmental Testing

- OVA Meters (Trace Gas Analyzer by Flame Ionization)
- HNU Meters (Trace Gas Analyzer by Photoionization)
- Air-Stripping Unit for Water Treatment
- LEL/Oxygen Meter
- Draeger Pump and Assorted Tubas
- pH/ Conductivity/ Temperature Meters
- Hammer Drill and Associated Sampling Equipment

Field Laboratory Trailer

- Equipped as Required for Specific Projects

Surveying and Mapping Equipment

- Total Station Survey Instruments (Topcon, Lietz, Hewlett Packard, various models, 25 total)
- Wild T2 Precise Theodolite
- 2 Trimble 4000ssi Total Station GPS Receivers
L1/ L2 dual frequency capability
OTF (On The Fly) Initialization
1.0MB static memory
- 2 Compact L1/ L2 frequency GPS Antenna w/ detachable geodetic groundplane
- 1 Pacific Crest 35w Data Transmitter
- 1 Pacific Crest 2w Data Receiver
- Trimble GPSurvey Software (v2.30b)
- Trimble TRIMNET Software (v92.11c)
- Dell Dimension XPS-D333 Computer w/ Dell Trinitron Monitor

Equipment Listing

Continued – page 6

- CTX – 300 MHz Laptop Computer
- Toshiba – 200 MHz Laptop Computer
- Thodolites (Dietzgen, 2 total)
- Engineer's Transits
- Data Collectors (SMJ – Construction V, HP 48 GX, Topcon, Leitz, various models, 20 total)
- Wild N3 Precise Level
- Automatic Levels (Lietz, Pentax, Wild, various models, 25 total)
- Planimeters (4)
- Various Lengths of Engineer Chains, Precision Leveling Rods
- 12 ft. Boat with Trolling Motor
- Pontoon Boat

Computer Equipment:

Software

- MicroStation J
- MicroStation SE
- MicroStation V8 – (2) Network Administered
- Bentley View (41) Network Administered
- InRoads v8.3 – Network Administered
 - InRoads Bridge
 - InRoads Site
 - InRoads Storm & Sanitary
 - InRoads Survey

Equipment Listing

Continued – page 7

- AutoCAD Civil 3D 2015 – (7) Network Administered
- Site SelectCAD Package
- SurvCADD 2000 (2)
- Corel WordPerfect 2000 (21)
- Corel WordPerfect 2002 (20)
- Microsoft Office 97 Professional (21)
- Microsoft Office 2000 Premium (3)
- Microsoft Office XP Professional (8)
- Microsoft Office Professional 2003 (9)
- Microsoft Windows 98SE (21)
- Microsoft Windows 2000 Professional (3)
- Microsoft Windows XP Professional (17)
- Adobe Photoshop 7 (2)
- Adobe PageMaker 7 (2)
- Adobe Acrobat 6 Pro (21)
- Adobe PageMill (2)
- Adobe Illustrator 7 (2)
- Adobe InDesign 2 (2)
- Adobe GoLive 6 (2)
- Macromedia Studio MX (2)
- PCSTABL6/STED – Slope Stability
- UTEXAS2 – Slope Stability
- COGOPC+ - Surveying and Mapping

Equipment Listing

Continued – page 8

- CONTOUR+ - Surveying and Mapping
- HEC1 – Flood Hydrograph Package
- HEC2 – Water Surface Profiles
- DAMS2 – SCS Structure Site Analysis
- PONDPACK – Urban Hydrology and Detention Pond Design
- GEOPRO – Geotechnical Engineering Software
- LPILE Plus 4.0 for Windows – Pile Design
- SHAFT 4.0 for Windows – Caisson Design
- HELPMODEL – Hydrologic Evaluation of Landfill Performance
- FLOWMASTER 7.0 - Network Administered Pipe and Ditch Sizing
- WaterCAD for AutoCAD – 6.5 – Network Administered
- StormCAD for Windows
- CULVERTMASTER – Culvert Design and Analysis
- EXXON I – Pavement and Subbase Thickness Design
- Trimble GPSurvey Software (v2.30b)
- Trimble TRIMNET Software (v92.11c)
- Q & A Database
- Peachtree Accounting (time & billing)
- Protrax Axium accounting
- Laboratory Test Data Reduction Programs
- GeoSystems – Geotech Engineering Materials Testing
- gINT 6 – (7)
- Lotus 123 Spreadsheet

Equipment Listing

Continued – page 9

- HWY – Asphalt Pavement Thickness for Streets and Overlays
- HWLOAD – Asphalt Pavement Thickness for Heavy Wheel Loads
- Government Forms Software '98 (SF 254/255)
- Deed Plotter for Windows
- HEC-HMS
- HEC-RAS
- HEC-Storm Sewers
- Hydraflow Hydrographs
- Hydraflow Storm Sewers
- CP-4 Asphalt
- Server Software
 - Windows 2000 Professional Server
 - Microsoft Exchange 2000 Server
 - Symantec Anti-virus Server
 - Symantec Mail Security AVF filter for MS Exchange
 - Symantec Web Security
 - Veritas Backup Exec 9.1 for Windows Servers
 - TripLite Power Alert

Equipment Listing

Continued – page 10

Hardware

- PIII (400MHz – 1 GHz), 21 Stations total, up to 40GB Hard Drives
- P4 (1 GHz – 2 GHz) (14)
- P4 (2 GHz – 3.4 GHz) (5)
- Notebook Computers (6)
- Digital Cameras (3)
- Printers
 - HP CP6015x
 - KM 350
 - KM 600
 - KM C353
- Plotters
 - HP DesignJet 1050C
 - HP DesignJet 4020 PS
- Fax Machines
 - HP 3100
 - Brother MFC4600
- Copiers
 - KM 350
 - KM 600
 - KM C353
- Firewall
 - Cisco PIX 506E Security Appliance
- Compaq Proliant ML370 G2 Server
- TripLite UPS

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
WWTP Improvements Mason, WV	Town Of Mason, Wv	Wastewater Design And Construction Administration	\$3,461,000	75%
WWTP Improvements Belle, WV	Town Of Bell, Wv	Wastewater Design And Construction Administration	\$4,723,500	90%
Village Of Amesville Water System Improvements	Village Of Amesville, Ohio	Water Distribution Design And Construction Administration	2,5000,000	60%
Wastewater Treatment System Improvements Rutland, Ohio	Village Of Rutland, Ohio	Wastewater Treatment Design And Construction Administration	1,564,500	60%
Sand Hill Switch Station Wheeling, WV	American Electric Power Columbus, Ohio	Full Substation Design Geotech Construction Admin		90%
Lockwood Station Design Moundsville, WV	American Electric Power Columbus, Ohio	Full Substation Design Geotech Construction Admin		85%
Buell Substation Design	American Electric Power Columbus, Ohio	Full Substation Design Geotech Construction Admin		80%
TOTAL NUMBER OF PROJECTS: 7			TOTAL ESTIMATED CONSTRUCTION COSTS:	

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
29 th St. Exit To Ona Mal Pie Study Huntington, Wv	Geotechnical	Mead 7 Hunt Charleston, WV	2022		500,000.00
Beckley Ada Ramps Beckley, Wv	Surveying	CDM Smith Charleston, WV	2019		100,000.00
Scary Creek Bridge Scott Depot, Wv	Surveying	CDM Smith Charleston, WV	2019		30,000.00
Springstone Run Arch Bridge	Geotechnical	HNTB Scott Depot, WV	2019		20,000.00
Moore Run Plate Arch Bridge	Geotechnical	HNTB Scott Depot, WV	2020		20,000.00
Cass Rockfall	Geotechnical	HNTB Scott Depot, WV	2019		25,000.00
Back Allegheny Mountain Road Bridge	Geotechnical	HNTB Scott Depot, WV	2019		24,000.00

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Tague Bridge	Geotechnical	WRA Charleston, WV	2019		23,000.00
Coalfields Expressway	Geotechnical	CDM Smith Charleston, WV	2020		26,000.00
Pearcy Run Bridge	Geotechnical	WRA Charleston, WV	2019		19,000.00
Tickville Bridge	Geotechnical Qc Inspection And Testing	HNTB Charleston, WV	2019		50,000.00
Junior Bridge Charleston, WV	Geotechnical	WRA Charleston, WV	2019		20,000.00
WV Turnpike Improvements	Construction Materials Testing And Inspection	HNTB Scott Depot, WV	2018		100,000.00
Marshall University Pharmacy Lab And Student Housing	Construction Materials Testing And Inspection	PJ Dick Huntington, WV	2020		200,000.00

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Bojangles Restaurant Pikeville, KY	Rutherford Development Lexington, KY	\$1,500,000.00	2017	YES
Devonshire Patio Homes Scott Depot, WV	Cathcarte Development Charlottesville, VA	\$30,000.00 (Fee)	2017	YES
Water System Improvements Toronto, Ohio	City of Toronto P.O. Box 189 416 Clark Street Toronto, Ohio 43964	\$2,100,000.00	2018	YES
Wastewater Improvements Hartford, WV	Town of Hardford PO Box 7 Hartford, WV 25247	\$1,700,000.00	2017	YES
Raw Water System Improvements Bluefield, WV	Green Valley-Glenwood PSD P.O. Box 6099 Bluefield, WV 24701	\$16,000,000.00	2017	YES
Bojangles Restaurant Cross Lanes, WV	Rutherford Development Lexington, KY	\$1,500,000.00	2017	YES
Bojangles Restaurant Rt. 60 Huntington, WV	Rutherford Development Lexington, KY	\$1,500,000.00	2017	YES
Bojangles Restaurant Pikeville, KY	Rutherford Development Lexington, KY	\$1,500,000.00	2017	YES

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Bojangles Restaurant 16 th Street Huntington, WV	Rutherford Development Lexington, KY	\$1,500,000.00	2017	NO
Devonshire	Cathcarte Development Charlottesville, Virginia	3,000,000.00	2017	YES
Water Line Extensions Salt Rock, WV	Salt Rock PSD 100 Padero Drive Ona, WV 25545	\$1,800,000.00	2017	NO
Wastewater Treatment Upgrades, Phase II Belle, WV	Town of Belle, WV 1100 East Dupont Ave. Belle, WV 25313	\$3,800,000.00	2018	YES
Mobley Settlement Investigation Mobley, WV	GZA Milwaukee, WI	N/A	2017	No
South and Center Trunk Line WWTP Upgrade Design/Build Cadiz, Ohio	Village of Cadiz, Ohio 128 Court Street Cadiz, Ohio 43907	\$3,500,000.00	2015	Yes
Sewer Study North Trunk Line Cadiz, Ohio	Village of Cadiz, Ohio 128 Court Street Cadiz, Ohio 43907	\$3,500,000.00	2015	Yes
Water System Improvements Camden On Gauley, WV	Town of Camden on Gauley Mayor Avenue Camden on Gauley, WV 26208	\$2,000,000.00	2014	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
Corridor H Drilling Kerens to Parsons, WV	WV Division of Highways, Charleston, WV	1,821,000	2015	No	Michael Baker International
Wellsburg Bridge Phase II Drilling Wellsburg, WV	WV Division of Highways, Charleston, WV	368,000.00	2015	No	HDR Engineering
District 2 Landslide Repairs Mingo, County, WV	WV Division of Highways, Charleston, WV	38,000.00	2015	No	E.L. Robinson
Proposed Wayne Impoundment	Consol Pittsburgh, PA	13,500.00	2013	Yes	Smith Land Surveying
CPT 11 Access Road Upshur county, WV	EQT Pittsburgh, PA	12,600.00	2013	Yes	Smith Land Surveying
Proposed Cent 22 Well Pad Upshur County, WV	EQT Pittsburgh, PA	14,300.00	2012	Yes	Smith Land Surveying

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
Sheetz Store Huntington, WV	Sheetz Inc. Altoona, PA	UNKOWN	2017	YES	H&H
Bojangles Rt. 60 Huntington, WV	Rutherford Development Lexington, KY	UNKOWN	2017	YES	RUTHERFORD DEVELOPMENT
Bojangles 16 th Street Huntington, WV	Rutherford Development Lexington, KY	UNKOWN	2017	NO	RUTHERFORD DEVELOPMENT
Bojangles Cross Lanes, WV	Rutherford Development Lexington, KY	UNKOWN	2017	YES	RUTHERFORD DEVELOPMENT
Bojangles Charleston, WV	Rutherford Development Lexington, KY	UNKNOWN	2017	NO	RUTHERFORD DEVELOPMENT
Toyota Manufacturing 740k Gear Buffalo, WV	Toyota Manufacturing Buffalo, WV	UNKNOWN	2017	YES	RAYNES AND SONS
Progress Rail Services Raceland, KY	Progress Rail Services Raceland, KY	UNKNOWN	2017	YES	PROGRESS RAIL SERVICE
Auto Zone Proctorville, Ohio	AUTO ZONE MEMPHIS, TN	UNKOWN	2017	YES	AUTO ZONE

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.


Triad Engineering, Incorporated (TRIAD) is a full service engineering firm specializing in the areas of geotechnical, civil and mining engineering and design, environmental assessment, surveying and mapping, construction monitoring, subsurface exploration, and laboratory testing, among other earth science disciplines. Our current work force includes civil, geotechnical and mining engineers, environmental scientists, geologists, hydrologists, chemists, surveyors, trained Computer Added Design Drafting (CADD) draftsmen, field and laboratory technicians, drillers and support personnel.

TRIAD was founded in Morgantown, West Virginia (WV) in 1975 by three principals who molded the firm based on their belief that if the highest standards were maintained throughout all aspects of the company, they would earn their clients' respect, therefore ensuring the firm's continued growth. Today, TRIAD has a staff of over 200 full-time employees and seven office locations in WV, Pennsylvania, Ohio, Maryland and Virginia. By providing an array of competent services, using modern equipment, and maintaining a well-trained professional staff, TRIAD has maintained the founders' philosophies and proven that customer satisfaction results in good relationships and repeat business.

TRIAD has successfully performed thousands of projects utilizing its professional expertise. TRIAD employees pride themselves on their ability to provide the firm's clients with top-quality work that is on schedule and within budget. Our company is small enough to be responsive to the needs of our customers and large enough to remain at the forefront of scientific solutions.

We are extremely proud of our performance under past contracts, including those we have held with the WVDEP. As of this date, more than 400 AML&R projects have been undertaken by TRIAD. The vast majority of these projects have been successfully completed on time and within the proposed cost estimate. As always, TRIAD will commit the necessary resources to meet the needs of this project.

20. The foregoing is a statement of facts.

Signature:  Title: Chief Technical Officer, Regional Manager

Date: 9/12/2018

Printed Name: Dave Meadows, PE, PS

ATTACHMENT B
AML Related Project Experience Matrix

AML and RELATED PROJECT EXPERIENCE MATRIX

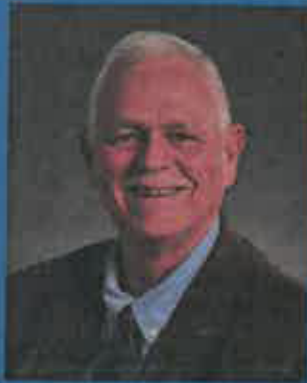
PROJECT	Exp. Basis C=Corp. P=Personal *	Additional info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS														PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management				
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/R estoration	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Lee McCoy, P.E.	James. R. "Bo" Criniti		Danny Lipscomb, PE
Morris Creek Drainage	C			X	X	X					X	X	X	X	X	X	P/M				M
WVU Tech Drainage	C			X	X	X			X	X	X	X	X			X	P/M				M
Coal Hollow Refuse "A"	C			X	X	X					X	X	X		X	X					P/M
Dille-Widen Water Feasibility	C										X										
Mullens Water Feasibility	C										X										
Logan AMD	C				X	X			X	X	X	X	X		X						P/M
Elk Creek Portals	C			X	X	X					X	X	X	X			P/M	P			P
Rumble (Stevens) Refuse & Portals	C		X	X	X	X					X	X	X		X		P/M	P			P
Mullens Portals	C		X	X	X	X					X	X	X	X	X	X	P/M	P			P
Belington Portals & Drainage	C		X	X	X	X					X	X	X	X	X	X	P/M	P			P
Coaldale Refuse	C		X	X	X	X					X	X	X				P/M	P			P
Richardson Branch Complex	C		X	X	X	X					X	X	X	X			P/M	P		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.

ATTACHMENT C
Staff Resumes and Past Project References



EDUCATION

M. S. Civil Engineering
(Geotechnical), 1987, Virginia
Polytechnic Institute and State
University, Blacksburg, Virginia.

M.S., Civil Engineering, 1981,
West Virginia College of
Graduate Studies, Charleston,
WV

B.S., Civil Engineering, 1974,
West Virginia Institute of
Technology, Montgomery, WV.
Graduated Cum Laude

PROFESSIONAL EXPERIENCE
43 Years

REGISTRATIONS & LICENSES

Registered Professional
Engineer- WV [REDACTED]
Registered Professional
Surveyor- WV [REDACTED]

PROFESSIONAL AFFILIATIONS

WV Society of Professional
Surveyors
National Society of Professional
Surveyors
American Society of Civil
Engineers
Fellow Society of American
Military Engineers

SKILLS

- Geotechnical Engineering
- Engineering Management
- Surveying
- Civil Engineering
- Environmental Assessments

HIGHLIGHTS OF EXPERIENCE

Mr. Meadows brings over 40 years of leadership, design, construction and project management experience to Triad Engineering. Mr. Meadows joined Triad in 2013 to provide management to the southwest region which includes the southern West Virginia area and the Athens, Ohio office. Mr. Meadows has recently been named Triad's Chief Technical Officer. In this capacity he helps with technical expertise, quality and risk management, operations management, leadership and business development.

Prior to coming to Triad he served in a number of technical and leadership positions at the US Army Corps of Engineers, Huntington District. His expertise includes civil design, geotechnical engineering, construction management, surveying, environmental remediation and water resources engineering.

RELEVANT EXPERIENCE

Triad Engineering, Scott Depot, WV

Mr. Meadows has played an important role in maintaining the technical quality and management of the region, while being very active in business development. Besides managing all phases of operations for the Scott Depot, WV and Athens, OH offices, Mr. Meadows is responsible for management and planning of all civil engineering design projects; environmental assessments; surveying and mapping; water/wastewater engineering design projects; construction monitoring and testing operations; geotechnical investigation projects; and soils and concrete laboratory work in the region.

US Army Corps of Engineers, Huntington, WV

Chief H&H and Technical Support Division, Great Lakes and Ohio River Dam Safety Production Center and Dam Safety Modification Mandatory Center of Expertise. Mr. Meadows was responsible for developing and directing the Division's efforts to manage the regional execution of complex, non-routine, regional and inter-regional dam safety modifications, engineering assessments and risk and reliability analyses throughout the infrastructure capital stock portfolio of the U.S. Army Corps of Engineers. He primarily accomplished this mission through twelve senior technical staff (Hydraulic, Cost and Construction Engineers) who oversaw all complex technical aspects of modification work. He directed their work and provided them with strategic leadership, mentoring, coaching, counseling, team building, partnering, direction and management.

Chief, Engineering and Construction Division. Mr. Meadows was responsible to the District Commander for the Engineering and Construction functions associated with creating synergy between water resource development and the environment as it pertained to the Civil Works Program; responded to local, national, and global disasters; and provided full spectrum engineering and construction support to a geographic area comprising 45,000-square-miles. The district infrastructure includes 35 major flood control dams, nine locks and dam, and 29 major local flood protection projects. He provided technical, management, and strategic advice on engineering and construction matters. He directed a diverse staff of 215 team members engaged in all of the district's engineering design, construction, dam safety, levee safety, water management, flood damage reduction, navigation, flood proofing, and environmental enhancement, restoration and rehabilitation projects.

Chief, Water Resources Engineering Branch, Engineering and Construction Division. Mr. Meadows was responsible for planning, supervising and coordinating all hydrologic and hydraulic engineering, water control management and water quality activities of the Huntington District. These multiple discipline activities involved supervisory and program responsibility for studies, designs and reports through all stages of engineering investigations and planning, including preliminary examinations, surveys, review of surveys, urban studies, design reports and final construction plans and specifications for a wide variety of projects which included multiple-purpose projects for flood control, hydroelectric power development, navigation, water quality, and/or recreation, in various combinations, local flood protection projects, and channel improvement.

In addition to the above positions, Mr. Meadows has served as the Chief, Environmental and Remediation Section, Construction Management and Field Support Branch, Chief, Civil Design Section, Design Branch, Chief Soils & HTRW Section, Geotechnical Branch. He has also served as a Geotechnical Engineer, a Program Manager and a Hydraulic Engineer. During his career at the Corps he has worked on numerous projects such as the Yatesville Dam design and construction; West Columbus Floodwall, Williamson Central Business District Floodwall, Matewan Floodwall, Grundy Floodwall, Island Creek Flood Damage Reduction Project, Lower Mud Flood Damage Reduction Project and the Marlinton Flood Damage Reduction Project; R. C. Byrd, Winfield and Marmet Locks and Dam Replacement; Willow Island and Medahl hydropower additions; and the Bluestone, Zoar Levee, Dover, Bolivar, Beach City and Mohawk Dam Safety Modifications; and the Tom Jenkins Mineral Extraction. Mr. Meadows was responsible for the engineering and construction management of the Summit Equipment Remediation, American Car and Foundry Remediation, West Virginia Ordnance Works Remediation and Operations & Maintenance, Dolly Sods, and the PBOW Remediation and Operations & Maintenance; and the Zoar Levee Emergency Repairs. Directly responsible for the development of Flood-proofing Guide Plans and Specifications that resulted in numerous savings and adopted across the USACE.



EDUCATION

West Virginia Institute of
Technology, WV
BS, Civil Engineering

PROFESSIONAL EXPERIENCE

19 Years

REGISTRATIONS & LICENSES

- Professional Engineer,
WV, KY & OH

PROFESSIONAL AFFILIATIONS

American Society of Civil
Engineers
Society of American Military
Engineers
Association of State Flood
Plain Managers

SKILLS

- Civil Engineering
- Transportation
Engineering
- Site Development
- Planning and Surveying

HIGHLIGHTS OF EXPERIENCE

Mr. McCoy is currently the Department Manager for our Civil/Transportation Design Section and a Project Manager for the St. Albans office of Triad. In this capacity, he is responsible for the oversight of our civil engineering staff as well as the technical and management aspects of civil design and transportation projects within the office. Mr. McCoy has designed and managed projects in numerous disciplines including civil, structural and transportation engineering, site development, planning and surveying. These projects have included streets/highways, bridges, retail/commercial site preparation, airports, parking lots, buildings, retaining walls/foundations, sanitary structures, as well as recreational facilities. Duties included field surveying, drawings and specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, project management, contract administration and report preparation.

RELEVANT PROJECT EXPERIENCE

AML

WVDEP, Division of Abandoned Mine Land & Reclamation, Various Locations

As Project Manager and Lead Engineer, Mr. McCoy has been responsible for numerous AML&R designs throughout southern West Virginia. These designs have included grading, drainage, sealing of mine portals (wet & dry), and all aspects related to the closure and reclamation of pre-law mining sites.

SPORTS FACILITIES

Pendleton County Commission, Franklin, WV

Project Manager and lead designer for a park project near Ruddle, WV. This park includes baseball fields, jousting field, parking facilities, exercise trails, and concession building. Mr. McCoy also managed the preparation of construction documents and aided in the bidding of the project. As Project Manager and Lead Engineer, provided technical supervision and oversight to the civil site design for the construction of this \$300,000 Recreational/ Sport Park. This project included grading, drainage, roadway design, parking lot design, as well as all aspects of designing a large multi-use sports complex. As Project Manager, was also responsible ensuring that the site was able to acquire United States Corps of Engineers Permitting due to sensitive flood plain issues.

Portsmouth High School Athletic Complex, Portsmouth, OH

Mr. McCoy served as project manager and lead civil engineer for this 35 acre development in downtown Portsmouth Ohio. The project involved the planning, and design and preparation of construction documents for a football stadium, baseball field, softball field, tennis courts, outdoor basketball courts, dedicated running track, open green space, parking areas and an extensive underground storm water detention system to meet the stringent standards of the City of Portsmouth.

Oak Hill High School Baseball and Softball Complex, Oak Hill, OH

Mr. McCoy served as project manager and lead civil engineer for this 10 acre development on the campus of Oak Hill High School in Oak Hill, Ohio. The project involved the planning, and design and preparation of construction documents for a baseball field, softball field, tennis open green space, parking areas and an extensive underground storm water

detention system, synthetic turf baseball infield, and irrigation for both facilities.

Wheelersburg High School Football and Softball Complex, Wheelersburg, OH

Mr. McCoy served as project manager and lead civil engineer for a football field renovation project and the development of a softball field on the campus of Wheelersburg High School in Wheelersburg Ohio. The project involved the planning, and design and preparation of construction documents for a softball field and the renovation of the football field complex. The football field complex included a new locker room facility, restroom and concessions building, new home bleachers and a synthetic turf surface with an extensive underground storm water detention system. The design documents for the softball field included a press box, sunken dugouts, backstop and perimeter fencing.

Boone County Sports Complex, Julian, WV

Boone County Parks and Recreation (BCPR) wanted to expand the activities at their existing 130 acre park site near Julian West Virginia. The park is home of the Waterway, a swimming and water slide facility. BCPR enlisted the help of Triad Engineering to expand the facility and to provide other recreational opportunities for the community. The only available land for the expansion was in the Little Coal River flood plain. The development of this area required a flood study. Triad studied the flood prone area and determined that the development would not affect the flood plain or any downstream communities. Mr. McCoy served as project manager and lead civil engineer for this project.

Sue Morris Sports Complex, Glenville, WV

McCoy served as project manager and lead civil engineer for this project to plan and design a sports field project that included a NCAA regulation baseball field for the use of Glenville State University, as well as Gilmore County High School. The project also included two regulation Little League baseball fields, a building that houses a concession, restroom, box seating, and a meeting room.

EARTHWORK

Logan Embankment Failure Repair, Logan, WV

As Project manager and Lead Civil Designer, Mr. McCoy prepared construction documents for the repair of 4 landslides within the City of Logan. Project coordination was with the city and FEMA as the slides were attributed to local storm runoff. These landslides posed both access issues as well as safety issues to residents. The slides were encroaching on a structure in one case, access to the McCoy-Hatfield recreational trail, and were encroaching on city streets rendering them dangerously narrow with nearly vertical drop offs. Repairs varied from drilled pile walls to soil nailing. The repairs were designed to stabilize the slides and restore city streets to pre-slide conditions.

TRANSPORTATION, BRIDGES AND ROADS

Cameo Road Relocation

Mr. McCoy provided full civil engineering services including road way design for this project. The project consisted of the relocation of approximately 2,500 lf. of County Rt. 9 (Cameo Road) in Boone County. The purpose of the relocation was to facilitate the construction of a haul road for the Hobet No. 7 Coal Mine. TRIAD worked with a project team consisting of the West Virginia Division of Highways (WVDOH) and the Owner, to develop a complete comprehensive set of construction drawings. Roadway features included both stone and asphalt road sections, and berms, ditches and pipe culverts for roadway drainage features.

Sycamore Street Extension

Mr. McCoy designed the extension of Sycamore Street to provide a connecting street for the client. The design was complicated by the presence of design and construction activities on two adjacent sites. Triad provided engineering consultation including soils evaluation, generation of construction drawings, specifications, and bid documents for submission to the Village. Triad also assisted in the evaluation of bids, processed pay requests, and preformed several site visits during construction.

American Church Bridge Replacement, Delbarton, WV

Project Manager and lead roadway designer for the replacement of the American Church Bridge in Delbarton and related roadway work in Mingo County, WV. This project included managing structural engineers, geotechnical engineers, surveyors, other roadway engineers, and designers. Design work for this project included drainage, HEC-RAS analysis, roadway design, and right of way design.

Corridor H, U.S. 48 – Scherr, WV

Project Manager and lead roadway designer for 2.25 miles of 4 lane divided highway in Grant County, WV. This project included managing structural engineers, geotechnical engineers, surveyors, other roadway engineers, and designers. Worked closely with West Virginia Department of Transportation personnel as well as local residents during the highways design through the environmentally sensitive Greenland Gap area.

INDUSTRIAL DEVELOPMENT

Appalachian Power: Lakeview Substation, Cross Lanes, WV

As Project Manager and Lead Designer, Mr. McCoy prepared construction documents for the construction of a electric substation in Cross Lanes, WV. This project includes grading, drainage, and a reinforced embankment at a 1:1 slope.

Appalachian Power: North Proctorville Substation, Proctorville, OH

As Project Manager and Lead Designer, Mr. McCoy prepared construction documents for the construction of a electric substation in Cross Lanes, WV. This project includes grading, drainage and utilities. Also involved was a hydraulic and hydrologic study involving a nearby stream.

Bayer CropScience, Institute, WV

As Project Manager and Lead Civil Designer, Mr. McCoy prepared construction documents for the expansion for Bayer CropScience's Hazardous Waste Landfill in Institute, WV. The project included grading, drainage and the design of landfill liner and closure features including both earthen and synthetic liners and drainage features.

COMMERCIAL DEVELOPMENT

Federal Express Ground Distribution Center, Cross Lanes, WV

As Project Manager and Lead Designer, Mr. McCoy prepared construction documents for the development and construction of a 10 acre site to accommodate a distribution center and associated parking and access drives. This project included grading, drainage, detention, roadway expansion, parking lot design, utility design including water and sanitary sewer, water quality design as well as many other aspects.

Commerce Park, Huntington, WV

As Project Manager and Lead Engineer, Mr. McCoy, is responsible for the project design and construction administrative services for a large use development located in Huntington, WV. This development consists of affordable housing apartments, flex space warehousing and office space. This project includes grading, drainage, stormwater management, permitting, parking lot design, as well as many other aspects.

Amazon Call Center, Huntington, WV

As Project Manager and Lead Designer, Mr. McCoy prepared construction documents for the construction of a 70,000 square foot call center with 9 acres of parking in Huntington, WV. This facility houses over 800 customer service employees. This project includes grading, drainage, detention, roadway expansion, parking lot design, utility design including water and sanitary sewer, water quality design as well as many other aspects.

DirecTV Call Center, Huntington, WV

As Project Manager and Lead Designer, Mr. McCoy prepared construction documents for the construction of a call center just outside Huntington, WV. This facility houses DirecTV's customer service employees. This project includes grading, drainage, detention, roadway expansion, parking lot design, utility design including water and sanitary sewer, as well as many other aspects.

William Sharpe Hospital Expansion, Weston, WV

As Project Manager and Lead Civil Designer, Mr. McCoy prepared construction documents for site infrastructure for a 50 bed expansion to the existing William Sharpe Hospital Expansion. This project includes grading, drainage, detention, roadway expansion, parking lot design, utilities as well as many other aspects.

King's Daughters Medical Center, Various Locations in Kentucky and Ohio

As Project Manager and Lead Designer, Mr. McCoy prepared construction documents for the construction of numerous medical office buildings throughout Ohio and Kentucky. These projects include grading, drainage, detention, roadway expansion, parking lot design, utilities as well as many other aspects. Following is a list of more specific project locations:

- Ashland, KY
- Prestonburg, KY
- Ironton, OH
- Portsmouth, OH
- Minford, OH

Sheetz Store, Eisenhower Drive, Beckley, WV

As Project Manager and Lead Designer, Mr. McCoy prepared construction documents for the construction of a gas station/convenience store in Beckley, WV. This project includes grading, drainage, detention, roadway expansion, parking lot design, water quality design as well as many other aspects.

RESIDENTIAL DEVELOPMENT

Devonshire Development, Scott Depot, WV

As Project Manager and Lead Engineer, Mr. McCoy, is responsible for the project design and construction administrative services for a large resort style mix use residential development located in Scott Depot, WV. This development consists of apartments, townhouses and condominiums, state-of-the-art 6500 sq. ft. clubhouse as well as swimming pools, Jacuzzis, sport courts, tot lots, and dog exercise areas. This project includes grading, drainage, permitting, parking lot design, as well as many other aspects. Mr. McCoy is also responsible for all sanitary sewer collection and water system distribution design for the development.

Devonshire Development, Scott Depot, WV

As Project Manager and Lead Engineer, Mr. McCoy, is responsible for the project design and construction administrative services for a large resort style mix use residential development located in Scott Depot, WV. This development consists of apartments, townhouses and condominiums, state-of-the-art 6500 sq. ft. clubhouse as well as swimming pools, Jacuzzis, sport courts, tot lots, and dog exercise areas. This project includes grading, drainage, permitting, parking lot design, as well as many other aspects.

EDUCATION FACILITIES

Washington Nile Local School District, West Portsmouth, OH

Mr. McCoy was project manager for the development of a middle school on an existing high school and elementary site. The new addition occupies the area now that was being used as an football practice field and open play area. The site needed to be raised 13 feet so that it would no longer be in the Ohio Rivers flood plain. Site features included the development of a new circulation and parking system, the piacing of the building for appropriate sun orientation, pedestrian circulation around the site, utility design and an extensive storm water management system. The project is a LEED registered project that achieved a Silver Certification. Triad worked with a project team headed by the architect and owner, to develop a complete comprehensive set of construction documents.

Clay Local School District, Portsmouth, OH

Mr. McCoy was project manager for this project, which consisted of the development of an existing high school site into a K-12 school site with the addition of the middle and elementary schools . The new addition occupies the area now being used as student and faculty parking area. Site features included the development of a new circulation and parking system, the development of age appropriate play areas, outdoor learning areas, outdoor courtyard area, pedestrian circulation around the site, utility design and an storm water management system. This project is a LEED registered sustainable project.

Manchester Local School District, Manchester, OH

Mr. McCoy was project manager for the development of a 700 student elementary school attached to a recently built middle / high school. The new addition occupies the area that was being used as a parking area and open space. Site features included the development of a new circulation and parking system, pedestrian circulation around the site, grade appropriate play grounds, utility design and an extensive storm water management system. Triad worked with a project team headed by the architect and owner, to develop a complete comprehensive set of construction documents.

UTILITIES

Child Development Center Sewer Line Extension, Hanging Rock, Ohio

As lead engineer on this project, Mr. McCoy is responsible for the initial study to determine the most feasible and cost

effective method for upgrading the existing sanitary sewer collection system. Based on the results of the study, the option of extending the line to the City of Ironton, Ohio's Waste Water Treatment Plant was chosen. The project includes several thousand feet of 3 inch diameter force main line, booster stations, and road and creek crossings.



EDUCATION

West Virginia University, WV
BA, Chemistry

West Virginia Institute of
Technology, WV
BS, Civil Engineering

PROFESSIONAL EXPERIENCE
7 Years

REGISTRATIONS & LICENSES

- Professional Engineer, WV

SKILLS

- Civil Engineering
- Hydrologic and Hydraulic Analysis and Design
- Erosion and Sediment Control Plans
- Stormwater Management

HIGHLIGHTS OF EXPERIENCE

Mr. Criniti is currently a Project Engineer and is responsible for civil and surveying projects. He has participated in the design and management of numerous projects. These projects have included retail/commercial site preparation, airports, parking lots, buildings, retaining walls, foundations, sanitary structures, as well as boundary and topographic and photogrammetric surveys. Duties have included hydrologic and hydraulic analysis and design, erosion and sediment control plans, storm water management, field surveying, preparation of construction and as-built drawings, project specifications and preparation of various permit applications. Mr. Criniti also performs construction management, construction inspection, quality control testing, shop drawing review, project management, contract administration, and report preparation. He performs engineering calculations, studies, plans, reports and data analysis. Mr. Criniti assists in the coordinating of construction projects including conducting pre-bid, pre-construction and progress meetings, schedule review and pay request review and approval. He also assists in conducting interim and final inspections of construction projects to determine compliance with applicable laws, regulations, and specifications.

RELEVANT PROJECT EXPERIENCE

ATHLETIC FACILITIES

Washington Nile, Clay Local School District and Portsmouth Athletic Complex, Various Locations in Ohio

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for the drainage design and permitting for these projects. In this capacity he has to coordinate with the project architect, local municipalities, the ODOT and the project developer. Work on these projects included, utility routing, storm drainage design, storm water management design and preparation of ODOT encroachment permit applications, health department permit application and NPDES permit application for handling surface water during construction. Mr. Criniti is also responsible for performing construction admin on this project consisting of site inspections, pay application review and approval and construction schedule monitoring.

Tolsia Athletic Fields, Fort Gay, West Virginia

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for the drainage design and permitting for this project. In this capacity he has to coordinate with the project architect, local municipalities, the WVDOH and the project developer. Work on this project included, utility routing, storm drainage design, storm water management design and preparation of WVDOH encroachment permit applications, health department permit application and NPDES permit application for handling surface water during construction. Mr. Criniti was responsible for performing construction admin on this project consisting of site inspections, pay application review and approval and construction schedule monitoring.

Oak Hill High School Baseball and Softball Complex, Oak Hill, Ohio

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for the drainage

design and permitting for this project. In this capacity he has to coordinate with the project architect, local municipalities, state regulatory agencies and the project developer. The project involved the planning, and design and preparation of construction documents for a baseball field, softball field, tennis open green space, parking areas and an extensive underground storm water detention system, synthetic turf baseball infield, and irrigation for both facilities.

COMMERCIAL DEVELOPMENT

City National Bank – Construction Administration Services, WV

This project consists of a state wide contract to provide construction administration services for City National Bank on bank loans for commercial construction projects. On this project Mr. Criniti is responsible for performing periodic job site inspections of work progress, reviewing contractor pay requests, monitoring project schedules as they pertain to percent completion and pay requests, and conducting periodic progress meetings.

King's Daughters Medical Center – Various Locations in Kentucky and Ohio

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for the drainage design for this project. Mr. Criniti assisted the projected manager in the preparation of construction documents for the construction of numerous medical office buildings throughout Ohio and Kentucky. These projects include grading, drainage, detention, roadway expansion, parking lot design, utilities as well as many other aspects.

BB&T Facility, Beckley, WV

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for the drainage design and permitting for this branch bank facility. In this capacity he has to coordinate with the project architect, local municipalities, the WVDOH and the project developer. Work on this project included, utility routing, storm drainage design, storm water management design and preparation of WVDOH encroachment permit applications, health department permit application and NPDES permit application for handling surface water during construction. Mr. Criniti is also responsible for performing construction admin on this project consisting of site inspections, pay application review and approval and construction schedule monitoring.

FedEx Ground Expansion, Nitro, WV

This project consisted of providing site design and construction documents for the expansion of the FedEx Ground Building in Nitro, West Virginia. As a Staff Engineer, Mr. Criniti worked with a project team to provide construction documents including existing conditions, demolition plan, proposed site plan, layout plan, grading and drainage plan, erosion and sediment control plan and associated details.

RESIDENTIAL DEVELOPMENT

Devonshire Housing Development, Scott Depot, WV

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for site development design and permitting for various portions of this large residential development. In this capacity he has to coordinate with the project architect, local municipalities, the WVDOH and the project developer. Work on these projects includes building pad positioning and elevation, access road layout including grading design, parking lot layout, utility routing, storm drainage feature layout and design. Permitting work on these projects includes WVDOH encroachment permitting, health department permitting and NPDES permitting for handling surface water during construction. Mr. Criniti is also responsible for attending and conducting project meetings with the project contractor, the developer and associated agency.



EDUCATION

Fairmont State College, WV
BS, Civil Engineering

PROFESSIONAL EXPERIENCE

15 Years

REGISTRATIONS & LICENSES

- Registered Professional Engineer, WV, VA
 - WV [REDACTED]

SKILLS

- Geotechnical Evaluations
- Energy Sector
- Environmental Assessments
- Permitting
- Construction Materials Testing and Inspections
- Dam Inspections

HIGHLIGHTS OF EXPERIENCE

Mr. Lipscomb is currently the Geotechnical Engineering Manager at the Scott Depot branch of TRIAD. In this capacity, he has been involved in development and management of subsurface exploration projects and development of geotechnical engineering reports providing recommendations based on field observations and laboratory results for bearing capacity, earthwork operations, earthen dam embankments, slope stability, flexible and rigid pavement design, lateral earth pressures, sinkhole remediation, geophysics (electrical resistivity and ground penetrating radar), and rock excavation. These projects have included freshwater dams, shopping centers, roadway/bridges, buildings, retaining walls, residential communities, water storage tanks, waste water treatment facilities, and structures for coal mining facilities. Duties included assignment of laboratory testing, visual inspection of soil/rock specimens, geophysics, and earthen embankment evaluation. Mr. Lipscomb has additional experience in areas relating to civil site design, hydrologic and hydraulic design, grading plans, water line plans, sewer line plans, hydraulic calculations, storage tank sizing, booster station design, roadway layout and design, storm water management plans, technical specifications, environmental and regulatory permitting, blast monitoring, and construction quality control.

RELEVANT PROJECT EXPERIENCE

Transportation/Bridges

East Beckley Bypass-Rural Acres Drive to Stanaford Road, Raleigh County, West Virginia

As a Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in the design of cut and fills slopes, performed settlement calculations for embankment fills, estimated shrink/swell factors for excavated materials, and tabulated probable sources of select embankment. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

East Beckley Bypass-Stanaford Road to Industrial Drive, Raleigh County, West Virginia

As a Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in the design of cut and fills slopes, performed settlement calculations for embankment fills, estimated shrink/swell factors for excavated materials, and tabulated probable sources of select embankment. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

Yon Peraldo Memorial Bridge, Mercer County, West Virginia

As a Project Manager and Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in providing recommendations and design parameters for alternate deep foundation types. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

Hen Lawson Bridge, West Virginia

As a Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the thru truss bridge project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in providing recommendations and design parameters for alternate deep foundation types. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

Hurricane Creek Bridges, Wayne County, West Virginia

As a Project Manager and Geotechnical Engineer on this design/build project, Mr. Lipscomb participated on all geotechnical aspects of this multiple bridge project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in providing recommendations and design parameters for alternate deep foundation types. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

Norfolk Southern Bridge Wall, South Point, Ohio

As Project Manager and a Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the project including developing a boring layout based on provided project plans. His work included coordinated Railsafe training for field personnel, coordination of flaggers during field work and supervision of field inspectors during the subsurface investigation. Mr. Lipscomb participated in preparation of the Report of Geotechnical Exploration. This included providing recommendations for retaining wall design and construction.

Proposed Railroad Bridges, Randolph County, West Virginia

As Project Manager and Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the project. The project included constructing two new railroad bridges over streams in the Shavers Fork watershed. The bridges were referred to as the Beaver Bridge and the Lamothe Bridge, and were replacing culverts in an attempt to improve fish habitat. The bridge sites are located along an existing railroad that generally parallels the Shavers Fork River. Mr. Lipscomb participated in providing recommendations and design parameters for alternate deep foundation types. He also provided foundation recommendations and bearing capacity computations for the bridge abutments and piers.

Education

Putnam County Schools, Putnam County, West Virginia

Mr. Lipscomb served as the project engineer for the subsurface exploration at multiple Putnam County School projects. His responsibilities on the projects included scheduling and coordination of drilling activities, oversight of assignment for laboratory analysis of soil samples collected during drilling activities, developing boring logs, performing estimated settlement calculations, developing foundation recommendations, and composing a report of subsurface exploration for the individual projects.

Utilities

Water Distribution System Upgrades, Boone, Wayne, Berkley, Lincoln, and Logan Counties, West Virginia

Mr. Lipscomb has served as the project engineer for the detailed design of over 30 miles of water line extensions and associated appurtenances, including the preparation of construction drawings, water storage tank sizing and design, booster station design, hydraulic calculations, technical specifications, cost estimates, contractor's bid documents, review and recommendation of contractor's bids, and review of shop drawings.

Industrial/Commercial Development

Subsurface and Foundation Investigations, WV, VA, MD, KY, and OH

Mr. Lipscomb has performed subsurface and foundation investigations for various private business and industrial firms. The projects consisted of performing subsurface investigations and analysis and recommending appropriate foundation types based on the results of the subsurface investigation. The projects also involved estimating potential settlement, delineating potential subsurface problems, and providing related recommendations regarding the geotechnical aspects of the projects. A geotechnical report was prepared and provided to the client for each project. Mr. Lipscomb has also designed foundation systems for buildings and other structures.

Dominion Transmission, Inc., Chelyan, West Virginia

As project engineer, Mr. Lipscomb processed information gathered during drilling activities and developed a report of subsurface exploration to aid in the design of a horizontal directional drilling project under the Kanawha River in Kanawha County, West Virginia. This included providing rock core unconfined compression test results, and performing a review of rock core samples to observe their Mohs Scale of Mineral Hardness values. Regional geologic information was also given to aid in the project's design.

United Coal Company, Crab Orchard, West Virginia

As project engineer, Mr. Lipscomb performed geotechnical analysis of the site subsurface conditions and provided foundation recommendations for new coal preparation plant components planned to improve an existing facility. New coal preparation plant components included in the project consisted of a main coal preparation plant building, a raw coal reclaim tunnel, raw and clean coal stock piles (including stacker tubes), a loadout unit, and a refuse bin. Mr. Lipscomb recommended the use of cast-in-place concrete caissons for the majority of the proposed components due to underlying fill of unknown origin and variable content. Cast-in-place concrete caisson design parameters were provided for each of the proposed components, and spread foundation design parameters were provided for the refuse bin as an alternative to cast-in-place concrete caissons.

Civil/Site Design

Civil/Site Design Projects, West Virginia, and Virginia

Mr. Lipscomb has civil/site design experience related to the development of grading plans, cut/fill analysis, utility design/layout, hydrological analysis, hydraulic evaluations of open channel flow systems, storm sewer design, stormwater retention/detention design, sediment control structure design, preparation of permit applications, and consulting with clients, architects, regulatory agencies, and municipalities.



EDUCATION

Marshall University, WV
BS, Civil Engineering
Graduated Cum Laude

PROFESSIONAL EXPERIENCE

2 Years

CERTIFICATIONS

- Hazmat Certified
- Nuclear Gauge Safety Certified
- OSHA 10 Hour Construction
- CPR/AED and First Aid

SKILLS

- Construction Materials Testing and Inspection
- Environmental
- Geotechnical

HIGHLIGHTS OF EXPERIENCE

Mr. Hampton is currently a Staff Engineer for the Geotechnical Engineering Section at the St. Albans branch of TRIAD. In this capacity, he has been involved in laboratory testing, drill rig inspection, assisting the Geotechnical Project Manager in design and calculations, and writing reports. Mr. Hampton also has experience in building and installing sediment traps, performing laboratory analysis, surveying, and right-of-way plans. These projects have included stream studies, road construction, and flood damage. Mr. Hampton graduated Cum Laude from Marshall University with his Bachelors of Science in Engineering, Civil Emphasis and was the recipient of many awards including the Dean's List, Promise Scholar, National Society of Collegiate Scholars, and NASA West Virginia Space Grant, Undergraduate Fellowship.

RELEVANT PROJECT EXPERIENCE

Subsurface and Foundation Explorations (WV, VA, MD, KY, and OH)

Mr. Hampton assists with subsurface and foundation explorations for various private business and industrial firms. The projects consist of assisting the performing of subsurface explorations and analysis and recommending appropriate foundation types based on the results of the subsurface explorations. The projects also involved estimating potential settlement, delineating potential subsurface problems, and providing related recommendations regarding the geotechnical aspects of the projects. Mr. Hampton assisted in preparing the geotechnical report provided to the client for each project.

WV Division of Highways, District 2 Headquarters, Maintenance Design

Mr. Hampton visually surveyed roads in need of repair and documented road surface quality. He calculated total cost and quantity of material required to repair roads for paving contracts. Mr. Hampton also prepared and submitted right-of-way plans using Microstation and assisted in surveying flood damage and assembled contracts submitted to FEMA & FHWA.



EDUCATION

Marshall University, WV
BS, Environmental Science

PROFESSIONAL EXPERIENCE

15 Years

REGISTRATIONS & LICENSES

- Licensed Remediation Specialist, No. [REDACTED] West Virginia
- Monitoring Well Driller Certification, No. [REDACTED] West Virginia
- OSHA HAZWOPER 40 Hour Training/8 Hour Update (current)
- OSHA 8 Hour Supervisor Certification

SKILLS

- Due Diligence
- CERCLA
- Hazard Ranking System (HRS) Environmental Assessments
- Permitting

HIGHLIGHTS OF EXPERIENCE

Ms. Metz is currently the Environmental Services Manager and Senior Environmental Scientist at the Scott Depot office of Triad. Ms. Metz is responsible for the personnel management of the Environmental Services Group as well as the technical quality and management control of all Environmental projects in the southwest region. Additionally, Ms. Metz is a Licensed Remediation Specialist (LRS) and performs a variety of tasks for sites in the West Virginia Voluntary Remediation Program (VRP).

RELEVANT PROJECT EXPERIENCE

West Virginia Brownfields Assistance Center, Huntington, WV

As Program Manager, implemented the WVDEP Statewide Petroleum Brownfield Assessment grant program. Tasks include acting as liaison between the Brownfields Assistance Center, WVDEP and the USEPA, conducting Phase I ESAs, preparing site assessment work plans, conducting Phase II ESAs, preparing reports, monitoring budgets, and managing field activities.

City of Huntington, Huntington, WV

As Project Manager, implementing the City of Huntington Hazardous Brownfields Assessment Grant program. Tasks include completing an inventory of candidate sites, preparing site assessment work plans, acting as liaison between The City and USEPA, conducting Phase I ESAs, conducting Phase II ESAs, preparing reports, reporting status to The City and USEPA, monitoring budgets, managing field activities, and managing community outreach efforts.

Fayette County Commission, Fayetteville, WV

As Project Manager, implemented the County-Wide Hazardous Brownfields Assessment Grant program. Performed oversight for Phase I ESAs and asbestos inspections at 50 properties located throughout the County. Negotiated right of access agreements, monitored budgets and managed field activities.

Huntington Alloys Corporation, Huntington, WV

As Field Scientist, assisted in performing a metal translator study and water effects ration (WER) study as part of a variance request before the WV Environmental Quality Board. Tasks included collecting samples during storm events directly downstream of the culvert portion of Pats Branch below the Outfall 001 discharge.

Marshall University, Joan C. Edwards School of Medicine, Huntington, WV

As Project Manager and Environmental Scientist, performed various tasks under the WV VRP. Responsibilities included preparation of the Sampling and Analysis Plan, performing subsurface soil and groundwater investigations, data analysis, and report preparation. In addition, researched, designed, and implemented a soil gas vapor field investigation to investigate potential migration of VOCs, methane, and hydrogen sulfide from an abandoned, former MSW landfill underlying a portion of the site.

NISource Corporate Services Company, Various Locations, Eastern KY

As Environmental Scientist, prepared Remediation Completion Reports for the Kentucky Department of Environmental Protection for the characterization and remediation activities performed at 141 former mercury measuring stations located in southeastern Kentucky.

Responsibilities included interpretation of field and laboratory data, nonhazardous and hazardous waste disposal manifests, and reporting activities.

Rahall Transportation Property, Huntington, WV

As Project Manager and Environmental Scientist, performed various site characterization and remediation tasks utilizing WVDEP Brownfield grant funding. The site was historically operated as a railroad right of way maintenance facility and was the location of a 22,000 gallon coal tar light oil spill. Responsibilities included regulatory file reviews, sampling and analysis plan preparation, multi-media sampling, excavation oversight, and report preparation.

Strait's Cleaners & Coin Laundry, Charleston, WV

As Project Manager and Environmental Scientist, performed a Phase I ESA, Phase II ESA, and various tasks under the WV VRP at the former dry cleaner and laundromat facility. Tasks included preparation of the VRP Application, VRP Agreement, Sampling and Analysis Plan, subsurface investigation, multi-media sampling, source removal, and final report preparation. Based on the WV VRP re-opener prepared an area wide groundwater use restriction.

Turnpike Ford, Huntington, WV

As Project Manager and Environmental Scientist, performed site characterization activities under the LUST program. In addition to the Phase I ESA, performed direct-push subsurface investigations, multi-media sampling, analytical data evaluation and interpretation, reporting, and LNAPL recovery.

West Virginia Department of Environmental Protection, Multiple Locations, WV

As Program Manager, responsible for performing various assessment tasks at USEPA Superfund sites in West Virginia. Tasks have included performing Preliminary Assessments, Site Inspections, Combined Preliminary Assessment/Site Inspections, Expanded Site Inspection, and Site Inspection Reassessments under CERCLA. Specific tasks have included performing regulatory file reviews, site reconnaissance's, Hazard Ranking System (HRS) site scoring using USEPA software, USEPA Contract Laboratory Program (CLP) data management using USEPA software, providing electronic laboratory data deliverables for the WVDEP in EQUIS® data management format, Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP) generation, field sampling, and report preparation. These tanks have been performed at over 50 Superfund sites throughout West Virginia.

West Virginia Department of Environmental Protection, Charleston, WV

As Program Manager, implemented the WVDEP Statewide Hazardous Brownfield Assessment Grant program. Tasks include preparing site assessment work plans, acting as liaison between WVDEP and USEPA, conducting Phase I ESAs, conducting Phase II ESAs, preparing reports, reporting status to WVDEP and USEPA, monitoring budgets, managing field activities, and managing community outreach.

West Virginia Division of Highways, Multiple Locations, WV

As Program Manager and LRS, responsible for field activities and report preparation for WVDOH properties in the LUST, WV VRP, and UECA programs of WVDEP. Site characterization tasks have include subsurface investigations to determine the extent of contamination, multi-media sampling, groundwater monitoring well and recovery well installation. Prepares and/or provides oversight during data evaluation, prepares remedial action work plans and final reports. Responsible for project personnel selection, overall project and technical quality, budget and schedule management.



EDUCATION

Morhead State, KY
BS, Geology

PROFESSIONAL EXPERIENCE

25 Years

REGISTRATIONS & LICENSES

- Licensed Remediation Specialist, No. [REDACTED]
- Monitoring Well Driller Certification, No. [REDACTED] West Virginia
- Monitoring Well Driller Certification, No. [REDACTED] Kentucky
- OSHA HAZWOPER 40 Hour Training
- OSHA HAZWOPER 8 Hour Update (Current)
- West Virginia UST Worker Class B
- West Virginia UST Class A/B Operator Training

SKILLS

- Designing and Implementing Technical Investigations
- Underground Storage Tanks
- Installation Direct Push Technology
- Sampling and Analysis Plans

HIGHLIGHTS OF EXPERIENCE

Mr. Wright is currently a Project Geologist-Licensed Remediation Specialist with Triad's Scott Depot, West Virginia office. In this capacity, he is responsible for designing and implementing technical investigations, which include Phase I and II, Brownfields, Voluntary Remediation Program (VRP), Uniform Environmental Covenants Act (UECA), Leaking Underground Storage Tank (LUST), and Superfund environmental site assessments. Assessment activities include installation of direct-push technology and auger drill rig borings and monitoring wells, as well as collection of soil, groundwater, soil vapor, surface water, and sediment samples. In addition, Mr. Wright develops sampling and analysis plans, evaluates environmental data, and prepares reports and documents.

RELEVANT PROJECT EXPERIENCE

Ashland Branded Marketing, Inc., Ohio, Kentucky and West Virginia

As Project Manager, supervised underground storage tank (UST) system removals and closure activities at 10-20 sites. Removed and cleaned USTs at each site. Excavated and disposed of any contaminated soils and completed site restoration activities. Installed groundwater monitoring wells, collected soil and groundwater samples and prepared site assessment reports.

American Electric Power, Cabin Creek Substation, WV

As Project Geologist, performed quarterly sampling of groundwater monitoring wells as part of the ongoing remediation of the property. As the LRS, prepared the LUST/UECA Application, Agreement and Sampling and Analysis Plan.

British Petroleum, Lima, OH

As Project Geologist, installed vapor monitoring wells at a hazardous waste landfill.

Columbia Gas Transmission Corp., Various States

Project Manager on a natural gas transmission project that characterized and remediated several sites contaminated by PCBs, and/or pipeline liquids. Also served as field activities coordinator and characterization team member. Additional duties included client relations, field cost accounting, field equipment/supplies management, site health and safety and QA/QC of final reports. As a direct push technology rig operator, collected soil and groundwater samples during performance of environmental site assessments at compressor stations, production facilities, and decommissioned facilities.

Chesapeake Energy Corporation, Eagan, TN

As a project Geologist, provided oversight for oil recovery from a ruptured oil well pipeline. Supervised installation of underflow dams, oil recovery and placement of absorbent materials.

Chevron USA, Inc., KY and WV

As Project Manager, responsible for LUST assessment and remediation at 10-20 operating retail and bulk petroleum facilities. Tasks included installation of groundwater monitoring wells, quarterly groundwater sampling, LNAPL collection, conducting environmental site assessments, installation of remediation systems. Finally, prepared scopes of work and cost estimates and prepared various reports for submittal to the proper state regulatory agency.

CSX Real Property, Inc., Wheeling, WV

As Project Geologist at this site, conducted an environmental site assessment at this former commercial facility in preparation for future site development.

Dominion Transmission, Inc., Hastings, WV

As a LRS, prepared the VRP Application and Sampling and Analysis Plan. Conducted the site assessment which included monitoring well installation, soil, groundwater, sediment and surface water sampling. Prepared the Site Characterization Report. As a project Geologist, collected groundwater samples for quarterly monitoring. Provided oversight for LNAPL recovery.

Dominion Transmission, Inc., Weston, WV

As a project Geologist, provided oversight for LNAPL recovery. Installed LNAPL recovery trenches.

Dow Chemical Corporation, Charleston, WV

As a direct push technology rig operator, collected soil, groundwater and soil vapor samples during performance of environmental site assessments at production facilities, landfills and decommissioned facilities.

GE Aircraft Engines, Cincinnati, OH

As Project Geologist at this site, conducted an environmental site assessment which included monitoring well installation, soil and groundwater sampling.

Kentucky Department of Environmental Protection, Various Facilities, KY

As a direct push technology rig operator, collected soil, groundwater and soil vapor samples during performance of environmental site assessments at municipal and orphan landfills.

Super America/Speedway, Inc., Various States

As a direct push technology rig operator collected soil, groundwater and vapor sampling during performance of environmental site assessments. As Project Manager, responsible for LUST assessment and remediation at 10-20 operating retail and bulk petroleum facilities. Tasks included installation of groundwater monitoring wells, quarterly groundwater sampling, LNAPL collection, conducting environmental site assessments, installation of remediation systems. Finally, prepared scopes of work and cost estimates and prepared various reports for submittal to the proper state regulatory agency.

West Virginia Division of Highways, Mineral Wells, WV

As a LRS, prepared the LUST/UECA Application, Agreement and Sampling and Analysis Plan. Conducted the site assessment which included monitoring well installation, soil, groundwater, sediment and soil vapor sampling. Prepared the Site Characterization Report. Conducted oversight of contaminated soil removal.

West Virginia Division of Highways, Various Sites Throughout WV

As a LRS, prepared Site Characterization Reports, Remedial Action Work Plans, Final Reports, Land Use Covenants for petroleum contaminated VRP sites.

West Virginia Division of Highways, Various Sites Throughout WV

As a Project Geologist, conducted oversight of UST removals and prepared closure assessment reports.

West Virginia Department of Environmental Protection, South Charleston, WV

As a direct push technology rig operator collected soil and sediment samples during performance of an environmental site assessment at an abandoned landfill.



EDUCATION

Marshall University, West Virginia
BS: Environmental Science

PROFESSIONAL EXPERIENCE

15 Years

REGISTRATIONS & LICENSES

- OSHA HAZWOPER 40 Hour Training
- OSHA 8 Hour Supervisor Certification
- WV Monitoring Well Driller Certification
- 38 Hour United States Army Corps of Engineers Wetland Delineation Training

SKILLS

- Regulatory Compliance Assistance
- Geoprobe® Investigations
- USEPA Superfund Sites

HIGHLIGHTS OF EXPERIENCE

Ms. Cox is currently a Senior Environmental Scientist at the St. Albans office of Triad. In this capacity, she has assisted the WVDEP, OER by performing site assessment tasks at various USEPA Superfund (CERCLA) sites in West Virginia, including performing Site Inspections (SI), performing file reviews, site reconnaissance, and preparing various technical reports. Ms. Cox has also performed numerous Phase I and Phase II environmental site assessments (ESA) at commercial and industrial properties. These tasks include performing Geoprobe® investigations, subsurface soil and groundwater sampling, analyzing data, and generating technical reports. Ms. Cox has also assisted on West Virginia Voluntary Remediation Program (VRP) Sites by assisting in preparing reports and interpreting data. In addition, Ms. Cox provides regulatory compliance assistance to clients with the preparation of air and water quality permits, under the Clean Air Act, and Spill Prevention, Control and Countermeasure Plans, under the Oil Pollution Prevention Act.

RELEVANT PROJECT EXPERIENCE

Alcon Manufacturing, Ltd., Huntington, WV

As Environmental Scientist, provided water and waste management regulatory support to onsite and corporate environmental, health, and safety staff. Assisted the Project Manager in the design and implemented a water use survey and waste flow characterization study, the results of which will be used to make modifications to Alcon's existing National Pollutant Discharge Elimination System (NPDES) permit. Further, the information collected was used to analyze process and sanitary wastewater treatment needs as the plant continues to expand. Also, conduct monthly outfall sampling as required by the NPDES permit and prepare the monthly Discharge Monitoring Reports.

Alcon Laboratories, Inc., Huntington, WV

As a Field Scientist, assisted in performing a Phase II environmental site assessment (ESA) subsurface soil and groundwater investigations at an operating facility to assess the extent of any contamination to assist the user in making informed business decisions regarding the property.

Caraline Energy Company, Inc., Spencer, WV

As an Environmental Scientist, performed a community noise assessment for an area located in the vicinity of a compressor station. Tasks included collecting sound measurements in the field using sound level meters, evaluating the data, and preparing a report summarizing the results of the study.

Charleston Area Medical Center, Charleston, WV

As an Environmental Scientist, prepared Regulation 13 Construction Permits for each of the three divisions and a Title V Operating Permit for their hospital/medical/infectious waste incinerator. Tasks also included compliance reporting and sampling according to permit requirements.

Chesapeake Energy, Hindman, KY

As an Environmental Scientist, performed a noise assessment for an area in the vicinity of the a compressor station. Tasks included collecting sound measurements in the field using sound level meters, evaluating the data, and preparing graphical reports summarizing the results of the study.

EQT Corporation, KY, PA, VA, WV, and OH

As an Environmental Scientist, prepared numerous SPCC plans for natural gas production wells and compressor stations located throughout Kentucky, Pennsylvania, Virginia, and West Virginia. Tasks include Quality Control Review of field data provided by others, entering the field data into an ACCESS database, gathering data from compressor stations, and preparing the reports for review by the P.E.

CSX Real Property, Inc., Benwood, WV

As a Field Environmental Scientist, developed the Sampling and Analysis Plan, performed a LNAPL extent of contamination survey, collected environmental samples under the VRP, developed the groundwater potentiometric surface map, performed data analysis, and prepared the Site Characterization Report. In addition, responsible for performing the monthly LNAPL recovery, which included performing oversight of the vacuum extraction activities, measuring depth to groundwater and/or LNAPL, measuring thickness of LNAPL, evaluating data, and preparing the LNAPL Recovery and Groundwater Monitoring reports under the VRP.

CSX Real Property, Inc., Columbus, OH

As a Field Environmental Scientist, performed site characterization investigations to investigate potential migration of contamination onto a rail yard from an adjoining operating metal recycling facility. The investigations were performed to comply with the guidelines of the Ohio Voluntary Assistance Program (VAP). Investigations consisted of the collection of surface and subsurface soil, and groundwater samples using the Geoprobe® direct-push technology, and collection of surface waste and sediment samples from a wetland area.

Hard Rock Exploration, Inc., Various Locations, WV

As an Environmental Scientist, prepared natural gas general permits G30-D and G35-A for several compressor stations located throughout WV.

Hibner & Associates, Inc., Huntington, WV

As an Environmental Scientist, performed a Phase I environmental site assessment (ESA) at a former warehouse facility. No on-site recognized environmental conditions were identified; however, a potential recognized environmental condition was identified relative to off-site groundwater migration of chlorinated solvents, metals, and petroleum hydrocarbons from an adjoining, former glass manufacturing plant being assessed and remediated under the VRP. Therefore, work tasks also included a FOIA review of applicable documents in WVDEP files pertaining to the VRP work.



EDUCATION

West Virginia State College

PROFESSIONAL EXPERIENCE

27 Years

REGISTRATIONS & LICENSES

- WVDOH Certifies Tech Training Classes – Compaction, Aggregate, Portland Cement and Bituminous Concrete
- Troxler 8 Hour Nuke Safety and Operation
- Troxler Radiation Safety Officer Training
- 40 OSHA Training
- MSHA Impoundment Inspector Training ACI Training and Classes
- USACOE – Contractor QC Training
- WVDOT/DOH Compaction Inspector
- WVDOT/DOH Portland Cement Inspector
- WVDOT/DOH Aggregate Inspector
- WVDOT/DOH Bituminous Inspector
- ACI – Grade I Field Tech
- ACI – Grade I Lab Tech

HIGHLIGHTS OF EXPERIENCE

Mr. Hope is currently the Field Services Manager for the Scott Depot office of Triad. In this capacity he oversees the field staff, by handling calls from technicians on technical matters, staffing and scheduling and serving as the branch RSO. Mr. Hope also handles and in house QA/QC, schedules training classes, keeps all records of inspections and calibrations. In addition, he also writes proposals for perspective jobs, assigns new jobs and lab work and writes all QC plans.

RELEVANT PROJECT EXPERIENCE

Marshall University Football Stadium, Huntington, WV

Duties included the Testing and Sampling of site concrete. Testing of utility line backfill for compaction. The testing of structural steel and light foundation connections for proper bolt torque.

Sixth Street Bridge, Huntington, WV

Duties included Testing and Sampling of all West Virginia Department of Highways (WVDOH) classes of concrete. The monitoring thickness and testing of both fills and backfills for compaction. The sampling and testing of the river water for clarity during construction. Maintaining Quality Control Charts.

Georgia Pacific Plant, Mount Hope, West Virginia

Duties included Testing and Sampling of all concrete. Testing and monitoring lift thickness of tills. Collection of new proctor samples when material changes occurred. Utilization of an onsite lab to cure and break the test cylinders at proper intervals. Reporting of all information.

King's Daughter Medical Center Addition, Ashland, Kentucky

Duties included the Testing and Inspection of auger cast pile foundation instillation. Testing and Sampling of site concrete.

American Electric Power's North Charleston Service Center, Charleston, WV

Duties included the Testing and Sampling of site concrete, Testing and Monitoring of fill and backfill placement. The shipping of test samples to AEP lab and the receiving and recording of the test data. Inspection of plumbing crews including instillation of work. Backfill of utility trenches. Inspection of testing the lines. Inspection of concrete finishers work. Filling out of AEP's daily log sheets.

RCB Locks and Dam, Apple Grove, West Virginia

Duties included site concrete Testing and Sampling. The testing of fill placement by sandcone method. Collection and determination of usability of site fill materials. Utilized onsite lab for gradation/sieve analysis.

Endocrine Disruptor Study, Potomac, Ohio, Monongahela and Kanawha Rivers

Duties included the Sampling and Collection of raw river water to be tested by EPA and WV DEP for Endocrine Disruptors. The labeling and shipping of the samples to the testing labs. Photographic locations for the report and document river levels and clarity.

**REGISTRATIONS & LICENSES
(CONT.)**

- 40 OSHA HAZWOPER Certification
- MSHA –Certified Impoundment Inspector
- MSHA –Above Ground Hazard Trained
- US Army COE – Construction QC Manager for Contractors
- PCI Level I and IIF-Number Measurement/Floor flatness
- Pervious Concrete Technician
- Licensed Asbestos Inspector, WV

Commerce Park and West Pea Ridge Bridges, Huntington, West Virginia

Duties included the sampling and testing of all classes of WVDOH concrete. Testing and monitoring of lift thicknesses of fills and backfills. The collection of aggregate samples.

Route 10 Overpass Overlay, Chapmanville, West Virginia

Duties included the sampling and testing of the latex modified concrete for the overlay. Including the making of chloride perm samples.



EDUCATION

Dupont High School

PROFESSIONAL EXPERIENCE

19 Years

REGISTRATIONS & LICENSES

West Virginia Department of Highways Compaction Inspector
West Virginia Department of Highways Aggregate Sampler
West Virginia Department of Highways Portland Concrete Inspector
ACI Level 1 Concrete Technician
Smoke Certification
OSHA 40 Hour Hazardous Waste Operations
MSHA Certificate of Training
Pervious Concrete Technician
Trenching and Excavation Competent Person
Troxler 8 Hour Nuke Safety and Operation
Troxler Radiation Safety Officer Training
40 OSHA Training
MSHA Impoundment Inspector Training ACI

HIGHLIGHTS OF EXPERIENCE

Mr. Fleck is currently a Senior Engineering Technician at the Southwestern Region of Triad. Mr. Fleck duties in this role have included quality control testing and inspection of soil, concrete, structural steel and asphalt. Mr. Fleck has supervised as many as 2 engineering technicians on projects. He has provided project inspection and Quality Assurance/Quality Control services on numerous building, site and highway and bridge projects throughout West Virginia. In addition, Mr. Fleck also trains newer technicians, and handles all job specific reporting.

RELEVANT PROJECT EXPERIENCE

Mr. Fleck has performed Quality Control Testing and Inspection on Numerous Highway/Bridges projects, Industrial and Commercial projects. He has provided these services throughout our service area of operations as can be seen on the following representative project list.

Highway / Bridge Projects

Coalfields Expressway QAM – Mullens, WV
Route 10 Upgrades - Logan to Man, West Virginia
Johnson Creek Bridge - Alta, West Virginia
Shadle Bridge - Point Pleasant, West Virginia
Jefferson Ave. Bridge - Huntington, West Virginia
I-64 Upgrade - Cross Lanes, West Virginia
Darnell Road Overpass - Huntington, West Virginia
King Coal Highway – Mingo County, West Virginia

Dam and impoundment Projects

Elkwater Fork Dam – Elkins, WV
Wallback Dam – Wallback, WV

Water and Wastewater Projects

I and I Study – Cadiz, Ohio
Phase II Water Distribution System – Mason, WV
East Beckley WWTP - Beckley, West Virginia
Bradley WWTP - Bradley, West Virginia

Building Construction & Site Development

Fountain Place - Logan, West Virginia
Lowe's - Lexington, Kentucky
Cabell Huntington Hospital Additions - Huntington, West Virginia
Pullman Square - Huntington, West Virginia
Huntington Post Office - Huntington, West Virginia
Lakin Correctional Facility - Lakin, West Virginia
Marshall University Foundation Center – Huntington, West Virginia
King's Daughters Medical Center – Ironton, Ohio
Milton Middle School – Milton, West Virginia
Devonshire – Scott Depot, West Virginia

EDUCATION

High School Graduate

PROFESSIONAL EXPERIENCE

5 Years

REGISTRATIONS & LICENSES

- WVDOH Compaction Technician
- WVDOH Aggregate Technician
- WVDOH Concrete Technician
- ACI Level I Field Technician
- Nuclear Safety Training and Operation

SKILLS

- Field Testing and Inspection
- Geotechnical Laboratory Testing

HIGHLIGHTS OF EXPERIENCE

Mr. Taylor is currently an Engineering Technician II at the Scott Depot office of Triad. In this capacity he performs field testing and inspection of various construction materials including: concrete, asphalt, steel and soil compaction. He is trained and experienced in the use of a nuclear moisture gauge for field compaction testing. He has served as the sole QC Technician on many projects as well as leading a team of up to three technicians. Additionally, Mr. Taylor is proficient in performing geotechnical laboratory testing on concrete, aggregates and soils. Mr. Taylor also has experience working in our drilling and environmental departments. Mr. Taylor is well versed in smoke testing of sanitary and storm sewer piping as well as CCTV work.

RELEVANT PROJECT EXPERIENCE

Mr. Taylor has performed and assessed with Quality Control Testing and Inspection on a variety of different types of projects. He has provided these services throughout our area of operations as can be seen on the following representative project lists.

Water and Wastewater Projects

Inflow and Infiltration Study-Cadiz, Ohio
Flood Damage Evaluation – Alderson, WV
Cowen WWTP – Cowen, West Virginia
Belle Sewer Inspection – Belle, West Virginia
Pea Ridge PSD WWTP – Greenbottom, West Virginia
WVAW Plant Addition – Huntington, West Virginia
Gary Sewer Line Inspection – Gary, West Virginia

Highway/Bridge Projects

Liberty Park Road - Putnam County, West Virginia
Dunbar Toll Bridge – Kanawha County, West Virginia
Corridor H – Tucker County, West Virginia

Building Construction & Site Development

Sheetz Stores - Beckley, Huntington, and Cross Lanes, West Virginia
Bojangles – Huntington, West Virginia
WalMart Fuel Center - Ripley, West Virginia
O'Reilly's Store - Beckley, West Virginia
Postal Shipping Facility - Charleston, West Virginia
St. John's Church – Scott Depot, West Virginia
South Parkersburg Library – Parkersburg, West Virginia
Prim Law Office – Scott Depot, West Virginia
Southside Elementary Addition – Huntington, West Virginia
Devonshire Development – Scott Depot, West Virginia
Charleston Tennis Club – Charleston, West Virginia

Boone Memorial Hospital – Madison, West Virginia
Proctor & Gamble Site Development – Inwood, West Virginia
Cabell Huntington Hospital – Huntington, West Virginia

Industrial

Dover Air Force Runway Improvements – Dover, Delaware
Constillium Addition - Ravenswood, West Virginia
Control Tower, Mid Ohio Valley Airport – Williamstown, West Virginia
Hawk's Nest Hydro Dam – Cotton Hill, West Virginia
Dynege Plant - Hanging Rock, Ohio
Cynergy Addition – Milton, West Virginia
AEP Spom Plant Closer – New Haven, West Virginia

OVERVIEW

The project consists of the planned development of a coal mining facility including construction of two bridges across Indian Creek, a vertical shaft, a head house, office building, sewage treatment plant, box culverts, railroad lines, vehicular access, parking, utilities, and a sediment pond.

Triad performed a geotechnical investigation in the area consisting of a total of 26 borings. The purpose of the investigation was to provide parameters for foundation design of all structures and bridges and site development design. Services provided by Triad included surveying boring locations, drilling and sampling to obtain subsurface soil/rock samples to evaluate subsurface conditions, and preparation of a final geotechnical report.

CLIENT:

Mr. David Trader
Pinnacle Mining
Company
Pineville, WV

PROJECT TYPE:

AML

TRIAD SERVICES:

- Geotechnical Engineering
- Surveying
- Drilling
- Sampling

OVERVIEW

CLIENT:

West Virginia
Department of
Environmental
Protection
*Office of Abandoned
Mine Lands &
Reclamation*

PROJECT TYPE:

AML

TRIAD SERVICES:

- Surveying
- Drilling and
Geotechnical
Engineering
- Permitting
- Engineering Design
- Construction
Documents

The project consisted of three separate sites. One site consisted of a dilapidated wooden bridge, a refuse pile, discarded metal drums, and several portals. The other two sites consisted entirely of open, collapsed, and partially collapsed portals. Some of the portals were emitting water from past mining activity. TRIAD designed both wet and dry portal closures including bat gates for open portals, prepared dewatering plans for underground impoundments, prepared grading and drainage plans for the refuse pile as well as all areas around portals, and developed plans for dismantling and removing abandoned mine structures and regrading refuse piles. This project required close coordination with the West Virginia Department of Environmental Protection AML and Water Resource divisions.

Services provided by TRIAD on this project consisted of surveying to provide base topographic mapping for design, drilling and geotechnical engineering to determine subsurface water depths and subsurface conditions, NPDES and Water Quality permitting, engineering design, and construction document preparation.

OVERVIEW

The project consists of two sites located near Delbarton, off County Route 65, in Mingo County. The two sites are named "Elk Creek," and "Millstone Branch." Work elements consisted of the sealing and stabilizing of numerous open and collapsed mine portals along Elk Creek and Millstone Branch.

Triad designed, both wet and dry mine seals, bat gate installations, mine structural demolition procedures, limestone rip rap ditches, aprons, and storm drain pipe and structures to properly collect and convey drainage to Elk Creek. Six temporary stream crossings were also designed to provide access for construction equipment to the portal locations.

Services provided by TRIAD on this project consisted of surveying to provide base topographic mapping for design, drilling and geotechnical engineering to determine subsurface water depths and subsurface conditions, NPDES and Water Quality permitting, Corps of Engineer permitting, engineering design, and construction document preparation.

CLIENT:

West Virginia
Department of
Environmental
Protection
*Office of Abandoned
Mine Lands &
Reclamation*

PROJECT TYPE:

AML

TRIAD SERVICES:

- Surveying and Mapping
- Drilling and Geotechnical Engineering
- Permitting
- Engineering Design
- Construction Documents

OVERVIEW

The Kittle Flats reclamation project involved a large pre-law abandoned surface mine complex producing acid mine drainage (AMD). Initially a subsurface investigation was implemented along with preliminary surveying to establish ground control for future aerial mapping. The initial phase of the project involved design of a "state of the art" passive treatment system based on hydrogeological modeling performed. The system designed was both economical to construct and fairly maintenance free. A second phase of the project involved water sampling and monitoring as well as reclamation analyses and design. TRIAD's project manager conducted the pre-bid and pre-construction meetings and provided a level of construction oversight.

CLIENT:

West Virginia
Department of
Environmental
Protection
*Office of Abandoned
Mine Lands &
Reclamation*

PROJECT TYPE:

AML

TRIAD SERVICES:

- Surveying and Mapping
- Subsurface Investigation
- Laboratory Testing/Analysis
- Construction Management

Major Services Provided:

- Surveying and mapping
- Subsurface investigation
- Laboratory testing/analysis
- Monitoring well construction & development
- Preparation of design drawings
- Specifications and bid documents
- Construction management

OVERVIEW

The Rumble (Stevens) Refuse & Portals project is located off County Route 1, along Lick Creek, near the Town of Rumble, in Boone County, West Virginia. Work elements consisted of the regrade of an existing refuse pile to provide a more stable configuration, drainage improvements, and wet mine portal closures. Triad designed a demolition plan for the removal of existing mine conveyor concrete piers, regrade design of an existing refuse pile, wet seal portal closures, limestone rip rap ditches and aprons and piping and storm drain structures to collect and convey drainage to Lick Creek.

Services provided by TRIAD on this project consisted of surveying to provide base topographic mapping for design, drilling and geotechnical engineering to determine subsurface water depths and subsurface conditions, NPDES and Water Quality permitting, Corps of Engineer permitting, engineering design, and construction document preparation.

CLIENT:

West Virginia
Department of
Environmental
Protection
*Office of Abandoned
Mine Lands &
Reclamation*

PROJECT TYPE:

AML

TRIAD SERVICES:

- Surveying
- Drilling and Geotechnical Engineering
- Permitting
- Engineering Design
- Construction Documents

OVERVIEW

The Whitman Flats reclamation project involved an approximately 200 acre abandoned surface mine site. The mining that occurred in the late 1960's and early 1970's, was severely impacting the water quality of the Middle Fork watershed. An exploratory drilling program, and laboratory testing regimen was designed and implemented to determine subsurface conditions, water levels and water quality. Our drilling program indicated the Homewood Sandstone overburden material was the primary acid producer affecting the Middle Fork watershed. The field work on this reclamation project included extensive surveying and mapping, water monitoring and analysis. Upon completion of the field phase of the project, along with compilation and study of the generated data, it was decided the most effective method for treatment, from a maintenance and cost factor, involved the use of a Circulating Fluidized Bed coal combusting ash, in conjunction with a substantial passive water treatment system. TRIAD provided design drawings and technical specifications, conducted the pre-bid and pre-construction meetings, and performed water testing during construction and at completion of construction.

CLIENT:

West Virginia
Department of
Environmental
Protection
*Office of Abandoned
Mine Lands &
Reclamation*

PROJECT TYPE:

AML

TRIAD SERVICES:

- Surveying and Mapping
- Subsurface Investigation
- Laboratory Testing & Analysis
- Construction Management

Major Services Provided:

- Surveying and mapping
- Subsurface investigation
- Laboratory testing/analysis
- Monitoring well construction & development
- Preparation of design drawings
- Specifications and bid documents
- Construction management

OVERVIEW

CLIENT:

West Virginia
Department of
Environmental
Protection
*Office of Abandoned
Mine Lands &
Reclamation*

PROJECT TYPE:

AML

TRIAD SERVICES:

- Surveying and Mapping
- Drilling and Geotechnical Engineering
- Permitting
- Engineering Design
- Construction Documents

The project consisted of multiple sites within the West Virginia University Tech and Morris Creek Watershed area. The sites contained various mine related issues consisting of wet and dry mine portals, contaminated mine drainage, underground impoundments, abandoned mine structures, and refuse piles. TRIAD designed both wet and dry portal closures, passive water treatment systems both in and out of stream for acid mine drainage, and plans for dismantling and removing abandoned mine structures and regrading refuse piles. This project required close coordination with the West Virginia Department of Environmental Protection AML and Water Resource divisions, the Morris Creek Water Creek Association, and the United States Army Corps of Engineers.

Services provided by TRIAD on this project consisted of surveying to provide base topographic mapping for design, drilling and geotechnical engineering to determine subsurface water depths and subsurface conditions, NPDES and Water Quality permitting, engineering design, and construction document preparation.

ATTACHMENT D
Signed Forms

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

David F. Meadows

(Name, Title)

David F. Meadows, PE, PS - Chief Technical Officer

(Printed Name and Title)

10541 Teays Valley Road, Scott Depot WV 25560

(Address)

304. 755. 0721 / 304. 755. 1880

(Phone Number) / (Fax Number)

dmeadows @ triad eng . com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Triad Engineering, Inc.

(Company)

David F. Meadows

(Authorized Signature) (Representative Name, Title)

David F. Meadows - Chief Technical Officer

(Printed Name and Title of Authorized Representative)

9/11/18

(Date)

304. 755. 0721 / 304. 755. 1880

(Phone Number) (Fax Number)

West Virginia Ethics Commission
Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Triad Engineering Address: 10541 Teays Valley Road
Scott Depot, WV

Name of Authorized Agent: Dave F Meadows, PE Address: 25560

Contract Number: DEP1900000003 Contract Description: E01-Lake (Bell) Portals

Governmental agency awarding contract: WV DEP

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: [Handwritten Signature]

Date Signed: 9/11/18

Notary Verification

State of WEST VIRGINIA, County of PUTNAM

I, DAVE F. MEADOWS, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 11TH day of SEPTEMBER, 2018

Pamela E. Dosier
Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Dave F. Meadows, PE, PS

Authorized Signature: [Signature] Date: 9/11/18

State of WEST VIRGINIA

County of Putnam, to-wit:

Taken, subscribed, and sworn to before me this 11th day of September, 2018

My Commission expires March 10, 2019.



NOTARY PUBLIC Pamela E. Dozier

OUR SERVICES

Civil Engineering

Geotechnical Engineering

Environmental Services

Survey and Mapping

Landscape Architecture

Construction Monitoring

Drilling and Sampling

Laboratory Testing

Oil and Gas Industry Services

Mine Permitting



www.triadeng.com

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(740) 249-4304

TRIAD
TRIAD ENGINEERING, INC.