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| WOASIS | Jump to: PRCUID 🟦 Go 😥 Home 🔑 Personalize 🚳 Accessibility 📴 App Help 🌾 About |
|--|--|
| ome, Robert M Ross citation Response(SR) Dept: 0313 ID: ESR0705220000000028 Ver.: 1 Function: New Phase: Final Modified by batch , 07/05/2022 | Procurement Budgeting Accounts Receivable Accounts Payable |
| Header () 1 | |
| General Information Contact Default Values Discount Document Information Clarification Request | E List View |
| Procurement Folder: 1051908 | SO Doc Code: CEOI |
| Procurement Type: Central Purchase Order | SO Dept: 0313 |
| Vendor ID: 00000204787 | SO Doc ID: DEP220000020 |
| Legal Name: THE THRASHER GROUP INC | Published Date: 6/8/22 |
| Alias/DBA: | Close Date: 7/5/22 |
| Total Bid: \$0.00 | Close Time: 13:30 |
| Response Date: 07/05/2022 | Status: Closed |
| Response Time: 8:15 | Solicitation Description: EOI - 2022 AML Contract 2 Project South |
| Responded By User ID: Thrasher 🚖 | Total of Header Attachments: 1 |
| First Name: Caroline | Total of All Attachments: 1 |
| Last Name: Marion | |
| Email: cmarion@thethrashergro | |
| Phone: 304-624-4108 | |



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

State of West Virginia Solicitation Response

| Proc Folder: | 1051908 | | |
|---------------------------|------------------|-----------------------------|---------|
| Solicitation Description: | EOI - 2022 AML | Contract 2 Project South | |
| Proc Type: | Central Purchase | e Order | |
| Solicitation Closes | | Solicitation Response | Version |
| 2022-07-05 13:30 | | SR 0313 ESR0705220000000028 | 1 |

| VENDOR | | | | | |
|-----------------------------------|-------------------------|----------------|------------|----------------|----------|
| 000000204787 THE THRASHER GROU | P INC | | | | |
| Solicitation Number: | CEOI 0313 DEP2200000020 | | | | |
| Total Bid: | 0 | Response Date: | 2022-07-05 | Response Time: | 08:15:42 |
| Comments: | n/a | | | | |

| joseph.e.hageriii@wv.gov | |
|-----------------------------|------|
| Vendor Signature X FEIN# | DATE |

and conditions contained in this solicita

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---------|--|-----|------------|------------|-----------------------------|
| 1 | Professional Svcs - MacArthur Subsidence Phase III | | | | 0.00 |
| Comm | Code Manufacturer | | Specifica | ation | Model # |
| 811000 | | | opeenide | | |
| Commo | odity Line Comments: n/a | | | | |
| Extend | ed Description: | | | | |
| Profess | ional Svcs - MacArthur Subsidence Phase III | | | | |
| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
| 2 | Professional Svcs - Beckley Soccer Complex | | | | 0.00 |
| Comm | Code Manufacturer | | Specifica | ation | Model # |
| 811000 | 000 | | | | |
| | odity Line Comments: n/a | | | | |
| | ed Description: ional Svcs - Beckley Soccer Complex | | | | |
| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
| 3 | Professional Svcs - Price Hill Complex Pond Cleaning | - | | | 0.00 |
| Comm | | | Specifica | ation | Model # |
| 811000 | 000 | | | | |
| Commo | odity Line Comments: n/a | | | | |
| Extend | ed Description: | | | | |
| Profess | ional Svcs - Price Hill Complex Pond Cleaning | | | | |
| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
| 4 | Professional Svcs - Summerlee Water Treatment | | | | 0.00 |
| Comm | Code Manufacturer | | Specifica | ation | Model # |
| 811000 | 000 | | | | |
| Commo | odity Line Comments: n/a | | | | |
| | ed Description: | | | | |
| Profess | ional Svcs - Summerlee Water Treatment | | | | |
| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
| 5 | Professional Svcs - Crown Hill Refuse, Slide & Drainage | | | | 0.00 |
| Comm | Code Manufacturer | | Specifica | ation | Model # |
| 811000 | | | | | |
| Commo | odity Line Comments: n/a | | | | |
| Extend | ed Description: | | | | |
| Profess | ional Svcs - Crown Hill Refuse, Slide & Drainag | е | | | |

| Line | Comm Ln Desc | | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|--------|-------------------------------------|-------------------|-----|------------|------------|-----------------------------|
| 6 | Professional Svcs - Morris Creek | WVU Tech Drainage | | | | 0.00 |
| Comm | Code | Manufacturer | | Specifica | ation | Model # |
| 811000 | 000 | | | | | |
| | | | | | | |

Commodity Line Comments: n/a

Extended Description:

Professional Svcs - WVU Tech Drainage Morris Creek





WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION CEOI 0313 DEP220000020 - AML Contract 2 Project South

Submitted by: The Thrasher Group, Inc. July 5, 2022

155 Blue Angel Lane | Beaver, WV 25813 | 1-800-273-6541 | www.thethrashergroup.com



COMPLEX PROJECTS REQUIRE RESOLVE THRASHER'S GOT IT

July 5, 2022

Attn: Mr. Joseph E Hager III Department of Administration, Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

RE: West Virginia Department of Environmental Protection - CEOI 0313 DEP2200000020 AML Contract 2 Project South

Dear Mr. Hager and Selection Committee Members:

The Thrasher Group, Inc. is pleased to present our qualifications to the West Virginia Department of Environmental Protection for the AML Contract 2 Project South consisting of the following projects:

- » MacArthur Subsidence Phase III
- » Beckley Soccer Complex Subsidence
- » Price Hill Complex Pond Cleaning
- » Summerlee Water Treatment
- » Crown Hill Refuse, Slide and Drainage
- » Morris Creek Water Treatment

Thrasher was founded in West Virginia nearly 40 years ago; because of this, Thrasher understands the geographical and geological conditions associated with abandoned mine sites in southern West Virginia. In addition, Thrasher has a longstanding reputation for successfully completing Abandoned Mine Land (AML) projects, from emergency repairs, Abandoned Mine Lands, Economic Revitalization projects, traditional grant projects, and everything in between.

This assembled Thrasher team has been involved in numerous AML projects with successfully completing design, NEPA documentation, survey and mapping, construction inspection, and other services. Our demonstrated experience showcases our ability to efficiently identify project goals, establish accurate budgets, and develop successful outcomes for each of the projects at hand.

Additionally, with our offices in Beckley, Charleston, and Scott Depot, we will have dedicated team members readily available and easily accessible when the need arises to be on-site in an instant. Our proximity to the project sites allows us to perform consistent monitoring of the projects going on in the area.

We appreciate the opportunity to partner with you on these projects and look forward to helping you achieve your project goals.

Sincerely, The Thrasher Group, Inc.

Źachary Wright, MBA Senior Project Manager



Qualifications, Experience, and Past Performance

THE THRASHER GROUP

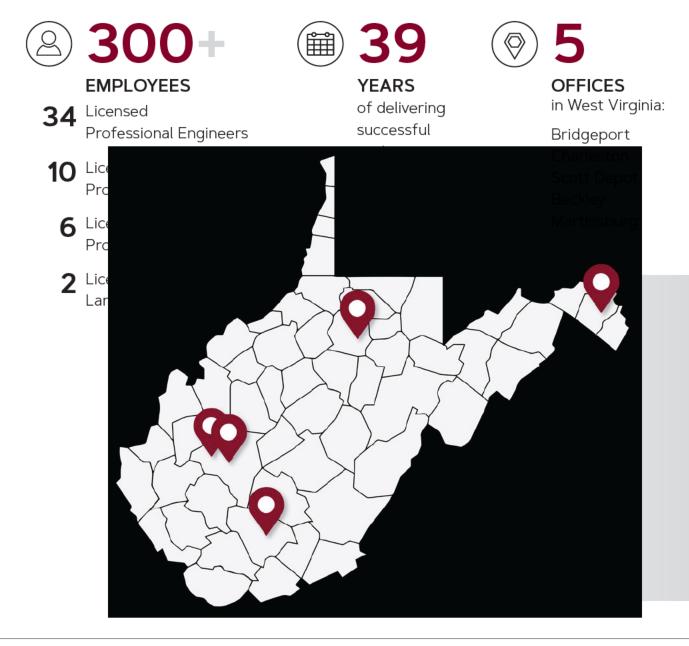


> Utility Engineering

- > Architecture
- > Site Engineering
- > Environmental
- > Survey
- > Transportation
- Construction Services
- Geospatial

Main Point of Contact:

Zachary Wright, MBA Senior Project Manager Zwright@thethrashergroup.com Cell: 304-476-4972 Office: 304-343-7601





FIRM HISTORY

With a commitment to building business through "successful projects and repeat clientele", H. Wood Thrasher, PE and the late Henry A. Thrasher, PE - formed Thrasher Engineering, Incorporated in Clarksburg, West Virginia in 1983. Since that time, the company, now known as The Thrasher Group, Inc. has grown into one of the Mid-Atlantic Region's largest full-service privately owned architectural and engineering firm.

Publicly funded projects have been the backbone of the company, and continue to be a large part of our engineering division. Thrasher has grown from its original three employees to a current staff of over 300 and continues to prosper. Instilled in each employee is a commitment to maintaining the highest standards of professional service.

The Thrasher Group is a full-service firm providing architecture, engineering, and field services such as environmental, survey, materials testing, and construction management. Our team has the experience, knowledge, versatility, and integrity to get the job done. With a 39-year history of driving infrastructure development for public and private clients, we have a reputation of keeping our word and completing projects on time and on budget. Thrasher is one of the fastest-growing A/E firms in the Mid-Atlantic region with eight offices located in the Appalachian Basin.



Diverse services that grow communities.

THRASHER'S GOT IT.





AML DESIGN

The Thrasher Group has provided design services to a number of Abandoned Mine Lands projects over the years. We are leaders in the industry, having completed projects for emergency repairs, using AML grants, and as part of the AML Pilot Program.

Our team has been a part of all types of AML work, including, but not limited to:

- » Highwalls
- » Portals
- » Slope Stabilization
- » Landslides
- » AMD Treatment
- » Refuse and Dump Improvements
- » Drainage Control
- » Burning Refuse Remediation

Drainage Design: All AML projects completed by Thrasher have required design of drainage structures. These have included vegetated, grouted, and riprap channels, as well as culverts and storm sewers. Drainage calculations are completed to properly size all conveyences.

Permitting: the permitting process can delay projects if they are not submitted correctly or in a timely manner. Thrasher takes pride in our ability to quickly obtain permits for our clients. We are able to utilize our excellent relationship with the WVDEP for NPDES permits as well as our relationship with the West Virginia Division of Highways for entrance and drainage permits. We are also experienced in obtaining Army Corp of Engineers permits from both the Pittsburgh and Huntington District Offices for stream bank restoration, wetland mitigation, and construction, linear transportation, and utility line projects, temporary construction access, and dewatering.





ENVIRONMENTAL SERVICES

In today's ever-changing regulatory landscape, compliance with federal and state environmental laws is critical to the success of projects. Compliance can often seem at odds with the project vision and financial constraints. The Thrasher team partners as a technical and regulatory advocate to overcome obstacles and guide our clients through complicated policies to achieve their goals. From initial investigations to final design, our environmental experts are there to assist in all facets of our clients' projects. Our team has developed relationships with academic consultants from multiple universities that are here to aid in specialized assessments.

Thrasher offers a range of environmental services, from abandoned mine land reclamation to stream and wetland delineations and everything in between. We have extensive experience with site assessments, permitting, and every aspect of environmental work that your project will encompass.

In addition, our team has a host of experience with Abandoned Mine Land (AML) projects and are familiar with the intricacies involved

Environmental Services:

- > All Appropriate Inquiry (AAI)
- > Environmental Site Assessments
- > NEPA Compliance for Publicly Funded Projects
- > Ecological Studies
- > Brownfield Redevelopment
- > Industrial Hygiene and Demolition Planning
- Underground Storage Tank (UST) Consulting Services
- > Wetland Delineation, Design, and Mitigation
- Remediation Investigation, Feasibility Studies, and Design
- > Hydrogeologic and Geologic Investigations
- > Groundwater Monitoring
- > Sampling and Laboratory Analysis
- > Solid and Hazardous Waste Management
- > SPCC, GPP, SWPPP, GWPP, SWPPP Environmental Compliance
- Coal Combustion Residuals Rule Compliance (CCR)
- > Stream Assessments, Design, and Mitigation
- > Erosion and Sediment Control Plans
- > Voluntary Remediation Program
- > Uniform Environmental
- > Covenants Act
- > CERCLA Preliminary Assessment
- > CERCLA Site Investigation





ENVIRONMENTAL PERMITTING

The Environmental Division of the Thrasher Group provides permitting, consulting, and assessment services to a multitude of clients spanning the Mid-Atlantic region. With a combined 40 years of permitting experience, Thrasher's Environmental Scientists, Permitting Leads, and Project Managers are able to take even the most complex and time restrictive projects and provide clients with cost effective and timely solutions.

Federal Permitting

- National Historic Preservation Act -Section 106 Consultation
 - > State Historic Preservation Office or Division of Culture and History
- Endangered Species Act Section 7 and Section 9 Consultations
 - > United States Fish and Wildlife Service
- > Clean Water Act Section 404 Permits
 - United States Army Corps of Engineers

- National Environmental Policy Act Categorical Exclusions, Environmental Assessments, and Short Environmental Assessment Forms
 - United States Army Corps of Engineers; Federal Aviation Administration; Division of Transportation; and Federal Communications Commission

State and Local Permitting

- State Responsible Regulations of the Clean Water Act – Section 401 and 402 Permits
- State Level Rare, Threatened, or Endangered Species Consultations
- State Level Aquatic Resource
 Encroachment and Impact Permits
- State Level Roadway Encroachment, Crossing, and Occupancy Permits
- State Level Industrial Waste Discharge Permits
- > Local Level Floodplain or Building Permits





SURVEY AND MAPPING SERVICES

Thrasher employs one of the largest survey departments in the Mid-Atlantic region and offers a wide range of land surveying and related services for federal, state, and private clients. We are committed to evolving our techniques and equipment to best serve our clients and their growing needs.

At Thrasher, we are able to provide both surveying and engineering services which provide a distinct advantage over surveyonly companies. The combination of these two services provide our surveyors with a better understanding of what engineers and architects require to develop an appropriate design for different types of projects. Our field and survey personnel offer extensive experience, certified training, and flexibility to meet our clients' unique project schedules.

Route Location Surveys:

- > Transmission Lines
- > Natural Gas Pipelines
- > Wind Turbine
- > Roadway, Railway, and Rec Trails

GPS Surveys:

- > Geodetic Control Networks
- > Ground Control for Aerial Mapping
- > Telecommunications
- > FAA 1A and 2C Letters

General Survey Services:

- > Large-Scale Boundary Work
- > Topographic Survey and Mapping
- > ALTA/ACSM Survey and Mapping
- > Lake and River Soundings
- Accident Reconstruction Survey & Mapping
- > Drug-free Zone Mapping
- > Expert Witness Testimony
- > Construction Layout
- > Permanent Project GPS Base Stations
- > Building Control and Layout
- > Road/Bridge Alignment and Staking
- > Sewer/Water/Pipeline
- > Site Layout
- > Quality Assurance Surveying
- > Volume/Quantity Surveys
- > As-Built Surveys

Coal and Energy Surveys:

- > Pre and Post Mining Blast Surveys
- > Water Quality Monitoring Plan
- > Construction Layout
- > Emergency Control Survey/Plans





AERIAL MAPPING AND LIDAR

The Thrasher Group has been providing the Mid-Atlantic region with top-of-the-line aerial mapping services for years. Thrasher's staff includes an ASPRS Certified Photogrammetrist who has the capability to offer high detail, lowaltitude imagery upon request.

We have strategic locations all across the Mid-Atlantic region, but we can map ANYWHERE. No project is too large, too small, or too far away. If you need it mapped, Thrasher can map it.

Aerial Mapping and LiDAR Services:

- > Lidar
- > Orthophotography
- > Aerial Mapping
- > Surface Modeling
- > Pipeline and Powerline Monitoring
- > Drone/UAV Services
- > Stockpile Volumes
- > Infrared Imaging
- > Thermal Imaging
- > Remote Aerial Inspection
- > Airborne GPS
- Aero-Triangulation
- > 3D Fly-throughs
- > Low Altitude Video
- > GIS
- > Teaming and Support





CONSTRUCTION ADMINISTRATION

Effective management of our projects ensures that both clients and contractors work in an efficient and safe manner. From pre-construction activities - such as bid conferences and surveys - to inspections, job progress reviews, and on through final completion, our goal is work that proceeds in accordance with plans and specifications.

At Thrasher, we inspect and manage a wide variety of projects designed by our firm in addition to projects for contractors and other designers. We have certified project representatives responsible for overseeing every element of design integrity. Our methods have earned the respect of not only our clients, but contractors and project owners alike.

Construction Inspection Services:

- > Construction Materials
- > Pipelines
- > Structural Steel & Concrete
- > Paving
- > Drainage
- > Embankments
- > Work Zone Safety & Traffic Control
- > Erosion and Soil Control

Quality Control and Assurance Methods:

- Regularly Scheduled Planning and Progress Meetings
- > Engineering During Construction
- > Daily Logs and Progress Sheets
- Cut Sheets
- > Quantity Tracking





SITE DEVELOPMENT

Engineering for site development is far from a "one size fits all" approach. Every project is unique and requires a blend of technical expertise, planning principals, efficient design, market realities, and the flexibility to seize opportunities. With our diverse staff, Thrasher has a winning combination of talent to take projects from design to reality.

At Thrasher, we understand that the design of a successful site development project must factor in economic landscape, political implications, and strategic planning that takes projects beyond engineering. The Thrasher team possesses expertise in every facet of development, including site selection and planning, grading, storm water management, erosion and sediment control, permitting, and infrastructure design.

We pride ourselves on being a partner in projects that improve the quality of life for residents and provide economic sustainability to communities.

Site Development Expertise:

- > Industrial and Business Parks
- > Mixed-Use Developments
- Athletic Facilities
- > Federal Correctional Facilities
- > Streetscapes and Sidewalk Planning
- > Commercial Developments
- Single and Multi-Family Residential Development
- Primary, Secondary, and Higher Education Facilities
- > Recreational Resorts and Guest Lodging
- > Shopping Plazas





MATERIALS TESTING

At Thrasher, we inspect and manage a wide variety of projects designed by our firm in addition to projects for contractors and other designers. We have certified project representatives responsible for overseeing every element of design integrity. From pre-construction activities - such as bid conferences and surveys - to inspections, job progress reviews, and on through final completion, our goal is work that proceeds in accordance with plans and specifications.

Thrasher's Construction Services Division is capable of performing a wide range of field and laboratory tests. Our laboratory is nationally AMRL and CCRL certified to perform in-depth testing for a variety of clientele. All of our labs serve as resources for our engineers and project representatives who perform tests both in the field and in the lab to best serve our clients' needs.

The Thrasher team possesses expertise in every facet of material and laboratory testing and is trained to industry standards in these disciplines. We pride ourselves on being a partner in projects and providing excellent service and testing results.

Materials Testing and Laboratory Expertise:

- > Concrete Testing and Inspection
- > Soil Testing and Inspection
- > Aggregate Testing and Inspection
- Mortar and Grout
- > Steel, Welds, and Rebar Inspection
- > Asphalt
- > Paint Coatings
- > Sprayed-on Fireproofing
- > Subsidence Testing
- > Caisson and Piling inspection
- > Engineering During Construction
- > Regularly Scheduled Progress Meetings
- > Daily Logs and Progress Sheets
- > Digital Photo Logs
- > Cut Sheets
- > Quantity Tracking
- > Floor Flatness and Levelness Testing





CIVIL ENGINEERING

Water Treatment & Distribution

Thrasher brings experience, practical knowledge and advanced technology to clients ranging from regional to small communities' water systems. Our engineers have designed and managed the construction of hundreds of miles of water distribution lines, millions of gallons of storage, and numerous system rehabilitations that successfully reduced water loss and increased reliability.

Wastewater Collection & Treatment

Wastewater collection and treatment systems are vital to the health of rural communities and municipalities. Cost-versus-benefit Environmental and technological issues are all involved.

Stormwater Systems

Thrasher is prepared to take on challenges to make your stormwater management project a success. In the not so distant past, storm water management was not a significant issue. It was "out of sight, out of mind." That is no longer the case. Ever-increasing regulations, the creation of public storm water utilities, and the focus on downstream effects of development are pushing stormwater management issues to the forefront.

Site Development

Engineering for site development is far from a "one size fits all" approach. Every project is unique and requires a blend of technical expertise combined with quality planning principles, efficient design, market realities, and flexibility to seize opportunities. With our diverse staff, Thrasher has the right blend of talent to make your project a success.

Roadways & Bridges

From industries to local families, the nation depends on the strength of highways, bridges, and even pedestrian walkways. No matter what the mode of land transportation, Thrasher gets our clients where they want to be.



QUALITY CONTROL POLICY



Thrasher has an internal Quality Control Policy to ensure our projects move forward efficiently and effectively. The objectives of this policy are to continually improve the quality of the design and technical deliverables Thrasher provides to its internal and external clients.

This policy illustrates the basic requirements for quality control in our projects. It describes the methods for checking and reviewing product elements and client deliverables, and includes rigorous comprehensive written check-lists for each stage of the design process, document production, and construction activities.

The purpose of these QC methodologies is to reduce or eliminate the potential for errors, omissions, ambiguities, and inconsistencies.

The policy outlines three main areas:

General Defines the purpose, intent and limitations, definitions, and

implementation

>

- Project Management Procedures
 Presents required procedures specific to this practice that allow for the efficient and accurate management of projects
- > Check and Final Review Procedures Presents required procedures specific to this practice that are used to insure technical accuracy of the work product



QUALITY CONTROL POLICY



Construction estimating and budgeting is one of the most important parts of what Thrasher can provide you. Without accurate budgets, there is no tool to guide the design process and issues will be inevitable. By including cost estimating as a part of the project scope from day one, we are able to avoid issues before they arise and keep your project within a reasonable cost.

And our estimates go beyond the typical system - rather than simply providing cost per foot or lump sum price, Thrasher will provide contractor-grade estimates that look at every part of the project. We do detailed take-offs of materials and look at every man hour needed to complete a project and factor this in accordingly. Then, we use our thorough understanding of the local market and material costs to accurately design within your budget.

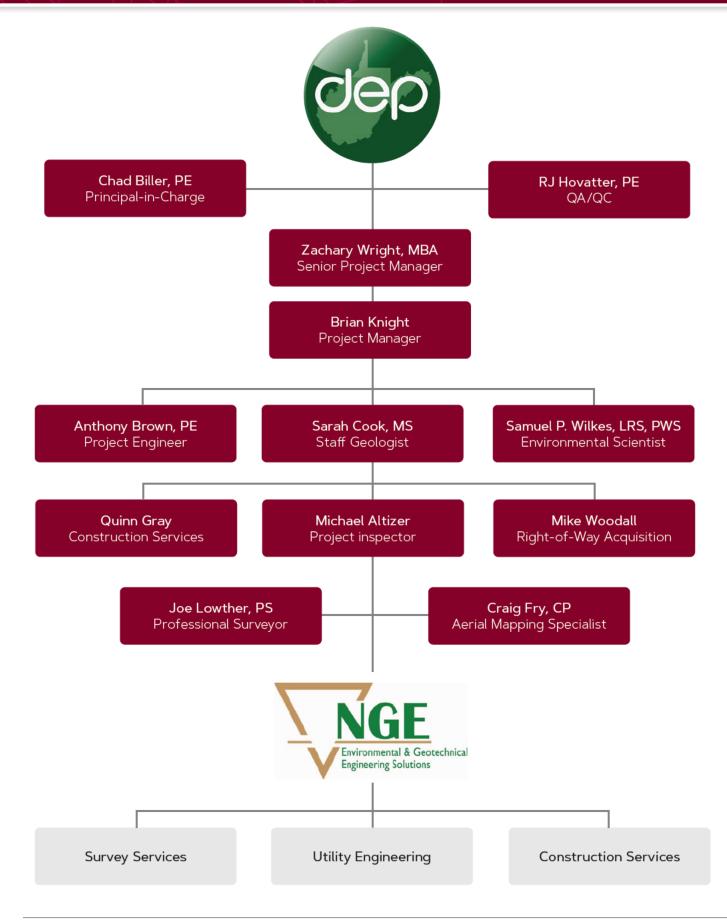


Thrasher realizes the importance of establishing and maintaining project schedules. Time means money and making sure we help you spend your money wisely is our number one goal. Because of this, our team puts an emphasis on ensuring project timetables are met and communication is upheld throughout the process.

To accomplish these goals, Thrasher utilizes scheduling to track every stage of a project - from design and bidding through construction completion. Keeping our owners up to speed with progress is always our priority and ensures occupancy and owner supplied equipment are scheduled accordingly.



STAFFING PLAN





CHAD BILLER, PE

Principal-in-Charge



Education Bachelor of Science, Civil Engineering West Virginia University

Registrations

Professional Engineer:

- > West Virginia
- > Ohio

Affiliations

- American Society of Highway Engineers
- American Society of Civil Engineers
- National Society of Professional Engineers

Chad Biller, PE has extensive experience in all aspects of civil engineering, but his primary emphasis lies in site development, transportation, and airport projects. Chad's expertise has made him a go-to source for the design and site layout of numerous residential and commercial sites all throughout the Mid-Atlantic region. His knowledge of site design in the mountainous terrain of West Virginia and the surrounding Appalachian basin is second to none.

As part of his role assisting our Land Development Market, Chad is responsible for the development of project design, production of project specifications and plans, bidding, quality assurance/quality control, and project monitoring. He brings a deep breadth of knowledge to the table, including creative problem solving skills, and decades of hands-on experience implementing unique project delivery methods individually tailored for his clients.

Experience

WVDEP AML Landgraff Refuse Pile Role: Principal-in-Charge > McDowell County, WV

WVDEP AML Stowe Landslide Role: Principal-in-Charge > Logan County, WV

WVDEP AML Anglins Run

Role: Principal-in-Charge > Nicholas County, WV

WVDEP AML Squires Creek

Role: Principal-in-Charge > Preston County, WV

WVDEP AML Isaac Creek Landslide Role: Principal-in-Charge

> Harrison County, WV

WVDEP AML Owl Creek Highwall #2 Refuse Role: Principal-in-Charge > Monongalia County, WV

City of Salem Slip Repairs Role: Project Manager > Harrison County, WV

Fairmont State University Storm Water Management Plan Role: Principal-in-Charge > Marion County, WV

Old Bridgeport Hill Storm Drainage Role: Principal-in-Charge > Harrison County, WV



CHAD BILLER, PE

Licensure Verification

Search: Details

| Name: | CHADWICK D. BILLER |
|--------------------------------|---|
| WV Professional Engineer: | PE License Number: |
| | PE License Status: Active |
| | PE Issue Date: 02/23/1998 |
| | PE Expiration Date: 12/31/2022 |
| Continuing Education Claim: | Qualifying Hours from Last Renewal or Reinstatement: 85.00 |
| | Carryover Hours for Next Renewal: 15.00 |
| | Last Renewal or Reinstatement Date*: 12/21/2020 |
| WV Engineer Intern: | El Certification Number: |
| | El Issue Date: |
| rimary Address of Record: | |
| Primary Employer | THE THRASHER GROUP, INC. |
| of Record: | 600 WHITE OAKS BOULEVARD |
| | PO BOX 940 BRIDGEPORT, WV 26330 |
| | This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals. |



RJ HOVATTER, PE

QA/QC



Education

Bachelor of Science, Civil Engineering Fairmont State University

Registrations

Professional Engineer:

- > West Virginia
- Pennsylvania

Certifications and Trainings

- Level I Rosgen Natural Stream Construction
- Level II Rosgen Natural Stream Construction
- HEC—RAS Operator Training Short Course
- Annual Oil & Gas Training Pennsylvania—Expedited Review of ESCGP-1
- > MSHA Training

Richard "RJ" Hovatter, PE has spent most of his career working with private and public clients on various site development projects. His team of engineers are able to develop strategies to fit the needs of each client. RJ is well versed in site design, grading, storm water and erosion and sediment control plans. He has also managed over 35 Abandoned Mine Land Emergency and Abandoned Mine Land projects across West Virginia, Maryland, and Ohio. His experience provides clients with the reassurance that projects are inspected thoroughly.

He also leads a team of highly skilled engineers in developing innovative slip remediation projects all across the Appalachian basin. RJ has spent a large portion of his career evaluating critical land slips and assessing feasible, sustainable solutions that serve both public and private entities. His diverse portfolio of work has given RJ a refined eye for potential land issues and slip-prone terrain, which ensures his clients projects are designed on safe, stable sites.

Experience

WVDEP AML Bloomingrose (Tincher) Burning Refuse Project Role: QA/QC > Boone County, WV

WVDEP AML Canyon Refuse and Dump Role: Project Manager > Monongalia County, WV

WVDEP AML Landgraff Refuse Pile Design Role: Project Manager > McDowell County, WV

WVDEP AML Isaac Creek Landslide Role: Principal-in-Charge > Harrison County, WV

WVDEP AML Stowe Landslide Emergency Role: Project Manager

> Logan County, WV

WVDEP Subsidence Depressions Role: Project Manager > Various Locations, WV

WVDEP AML Dansbranch Landslide Emergency Project Role: Project Manager > Mingo County, WV

WVDEP AML Lyons Landslide Role: Project Manager > Harrison County, WV

WV AML DEP Shinns Run Portals Role: Project Engineer > Harrison County, WV

WestRidge Phase 1 Slip Repair

Role: Project Manager > Monongalia County, WV



Licensure Verification

| Search. Detans | |
|--------------------------------|---|
| Name: | RICHARD G. HOVATTER, JR |
| WV Professional Engineer: | PE License Number: |
| | PE License Status: Active |
| | PE Issue Date: 12/17/2009 |
| | PE Expiration Date: 12/31/2022 |
| Continuing Education Claim: | Qualifying Hours from Last Renewal or Reinstatement: 30.00 |
| | Carryover Hours for Next Renewal: 0.00 |
| | Last Renewal or Reinstatement Date*: 12/30/2020 |
| WV Engineer Intern: | El Certification Number: 8494 |
| | El Issue Date: 12/15/2005 |
| Primary Address of Record: | |
| Primary Employer of Record: | THE THRASHER GROUP, INC. 600 WHITE OAKS BOULEVARD PO BOX 940 BRIDGEPORT, WV 26330 |
| | This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals. |



ZACHARY WRIGHT, MBA

Senior Project Manager



Education Master of Business Administration, Project Management West Chester University

Master of Science, Information Management Marshall University

Bachelor of Science, Mathematics Concord University Zachary Wright, MBA, has 20 years' experience managing construction, design, and environmental compliance projects throughout the Central Appalachian and Mid-Atlantic Regions. Preforming oversite on projects ranging from a \$15 thousand to \$40 million, Zac has expertise in cost estimation, cost control, site monitoring, scheduling, bidding, payment processing, regulatory compliance, and contract management.

A large portion of Zachary's experience involves mining and reclamation management projects. Having managed mine reclamation on more than 200 sites across five states, the techniques and requirements of reclamation and emergency response are second nature for Zachary. Additionally, he has managed mine-related emergency responses from start to finish and has the knowledge to quickly and effectively mobilize staff, develop sound engineering plans, and complete projects with the sense of urgency required to mitigate damage and cost.

Experience

WVDEP AML Bloomingrose (Tincher) Burning Refuse Project Role: Sr. Project Manager > Boone County, WV

WVDEP AML Special Reclamation Role: Sr. Project Manager

Greenbrier County, WV

Bevin's Branch Surface Mine Flood and Breach Emergency Response Role: Mine Site Emergency Response Director

Pike County, KY

Derby Hollow Emergency Role: Mine Site Emergency Response Director

Wise County, VA

Southern Coal Corporation 200 Mine Sites Role: Chief compliance Officer

> Various Locations

Baldwin Impoundment and Breach Emergency Response Role: Mine Site Emergency Response Director

Anderson County, TN

Bishop Virginia Coal Preparation Plant & Loadout Role: Senior Project Manager

Tazewell County, VA

Ravencliff-McGraws-Saulsville Public Service District Alternate Water Source Role: Project Manager

Wyoming County, WV



BRIAN KNIGHT

Project Manager



Certifications

- OSHA 10 Hour Construction
 Worker Training
- CPR and First-Aid

Brian Knight serves as a Project Manager with Thrasher. Brian has over 18 years of experience as a drafter, project engineer/manager, and project administrator with small engineering firms and large consulting firms. Since then, Mr. Knight has been diligent in providing high-quality and accurate project design and construction that meet deadlines and maintain budgets.

Prior to his time at Thrasher, Brian was responsible for bidding. Billing, reporting various projects, coordinating with vendors for material shipments, and meeting with state officials. These are responsibilities that help make Brian a valued Project Manager.

Experience

WVDEP AML Bloomingrose (Tincher) Burning Refuse Project Role: Project Manager > Boone County, WV

WVDEP

Glenn Alum Refuse Pile

Role: Project Manager

Mingo County, WV

WVDEP Len's Creek Portals

Role: Project Manager

> Boone County, WV

WVDEP Monarch Portals

Role: Project Manager

> Fayette County, WV

WVDEP Big Creek Portals Role: Project Manager > Fayette County, WV

WVDEP Broad Run Portals

Role: Project Manager

> Kanawha County, WV

WVDEP

Conley Branch

(Whitt) Landslide

Role: Project Manager

> Logan County, WV

WVDEP

Switzer (Ellis) Drainage Role: Project Manager

> Logan County, WV

WVDEP Verner Landslide Emergency Project Role: Project Manager

> Logan County, WV



ANTHONY BROWN, PE

Project Engineer



Education

Bachelor of Science Industrial Engineering West Virginia University

Registrations

Professional Engineer:

- > West Virginia
- North Carolina

Anthony Brown, PE, has over 15 years' experience managing construction projects relating to water, sewer, site, stormwater, demolition, FEMA mitigation and environmental compliance. Anthony has expertise in advancing a project from conception to completion. This includes cost estimation, funding acquisition, design, drafting, cost control, construction management, financial monitoring, and regulatory compliance.

Anthony's overall experience and understanding allows him to push projects in an efficient and timely manner.

Experience

WVDEP AML Bloomingrose (Tincher) Burning Refuse Project Role: Project Engineer > Boone County, WV

J2BTB Land Development Surface Mine Permit and Cabin Site Role: Project Engineer

Logan County, WV

Greenbrier County Public Service District #2 FEMA Mitigation Role: Project Manager

> Greenbrier County, WV

Bluefield Sanitary Board Brushfork Sewer Upgrade Role: Project Engineer

> Mercer County, WV

Page-Kincaid Public Service District Raw Water Capacity Upgrade

Role: Project Manager

Greenbrier Public Service District #2 Bingham Water Line Extension Role: Project Manager

Greenbrier County, WV

Town of Union UTC Waterline Extension Role: Project Manager

> Monroe County, WV

Cowen Public Service District Water System Rehabilitation Project Manager

> Webster County, WV



ANTHONY BROWN, PE

Search: Details

| Name: | ANTHONY J. BROWN |
|--------------------------------|---|
| WV Professional Engineer: | PE License Number: |
| | PE License Status: Active |
| | PE Issue Date: 06/17/2015 |
| | PE Expiration Date: 12/31/2022 |
| Continuing Education Claim: | Qualifying Hours from Last Renewal or Reinstatement: 37.00 |
| | Carryover Hours for Next Renewal: 7.00 |
| | Last Renewal or Reinstatement Date*: 12/18/2020 |
| WV Engineer Intern: | El Certification Number: 9078 |
| | El Issue Date: 12/17/2009 |
| Primary Address of Record: | |
| Primary Employer of Record: | THE THRASHER GROUP, INC. 155 BLUE ANGEL LANE BECKLEY, WV 25813 |
| | This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals. |



SARAH COOK, MS

Geologist and Environmental Specialist



Education

Master of Science, Geology and Environmental Science University of Pittsburgh

Bachelor of Arts, Environmental Geoscience, Minor in Geology West Virginia University

Certifications

- OSHA 30 Hour Construction
 Worker Training
- > CPR and First-Aid

Affiliations

- Water Environment Federation (WEF) Students and Young Professionals Committee
- Water Environment
 Federation (WEF) Water
 Leadership Institute
- West Virginia Water
 Environment Association
- Pittsburgh Collaboratory for Water
- Geological Society of America

Sarah Cook serves as a Project Coordinator in Thrasher's Water Resources Market. She brings a background in the public utility sector, having worked on numerous water, sewer, and stormwater projects in her career. She provides environmental and engineering support for clients by assisting with project planning initiatives, including scopes of work, proposals, and cost estimates. Sarah works directly with Thrasher's team of engineers to prepare and review funding applications, permit documents, geological studies, preliminary engineering reports, and other engineering reports. She also has notable experience in data processing, hydrologic modeling, technical writing, and scientific research. Sarah's understanding of hydrology and passion for the water industry empowers her to work on a variety of projects at Thrasher.

Experience

Beckley Sanitary Board Robert C. Byrd Drive Stormwater Improvements Role: Project Coordinator > Raleigh County, WV

Town of Fayetteville Lively Street Drainage Improvements Role: Project Coordinator > Fayette County, WV

City of Mount Hope MS4 Permitting Role: Project Coordinator > Fayette County, WV

Town of Rainelle Storm Drain System Role: Project Coordinator

Greenbrier County, WV

Beckley Sanitary Board Pinecrest Stormwater Improvements Role: Project Coordinator

> Raleigh County, WV

Beckley Sanitary Board Whitestick Stormwater Improvements

Role: Project Coordinator

> Raleigh County, WV

Beckley Sanitary Board Stormwater Capital Improvement Plan Role: Project Coordinator

> Raleigh County, WV

Wilderness Public Service District Preliminary Engineering Report Role: Project Coordinator

Nicholas County, WV



SAMUEL P. WILKES, LRS, PWS

Environmental Scientist



Education Master of Science Environmental Science & Policy Johns Hopkins University

Bachelor of Science, Earth & Environmental Science Wilkes University

Registrations

- Professional Wetland
 Scientist
- Licensed Remediation
 Specialist

Trainings

- > SafeLand Trained, June 2014
- > OSHA HAZWOPER
- > 1910.120/1926.65; 40 Hour Training & 8 Hour annual refresher trainings
- OSHA 10 Hour Construction Worker Training, October 2020
- > OSHA 30 Hour Construction Worker Training, November 2020
- Wilderness First Aid, CPR
 & AED Training; November
 2020
- Level I Fluvial Geomorphology, by David Rosgen

Affiliations

Society of Wetland Scientists

Sam Wilkes, LRS, PWS is an Environmental Project Manager within Thrasher's Land Development Market. Sam is a Professional Wetland Scientist and a WVDEP certified Licensed Remediation Specialist. He brings over 23 years of consulting experience as a project manager and senior environmental scientist, providing technical support to watershed management, restoration, natural resource conservation, and hazardous materials programs. Sam is experienced at providing project oversight and managing field teams and contractors collecting wetland, stream quality, environmental media data, and general site condition data for site characterization. He regularly interacts with his clients and manages project budgets and staffing plans, while providing quality control review of project deliverables. Sam understands the importance of delivering projects on time and providing a proactive management style to his clients.

Experience

Coalfield Development Corporation WVVRP Site Remediation Role: Environmental Project Manager > Cabell County, WV

Raleigh County Commission Clear Fork Rails to Trails Role: Environmental Project Manager

> Raleigh County, WV

KRT NEPA and Phase I ESA

Role: Environmental Project Manager

> Mercer County, WV

Morgantown Industrial Park Phase I ESA

Role: Environmental Project Manager

> Monongalia County, WV

Sutton Lake and Marina Phase I ESA

Role: Environmental Project Manager

> Nicholas County, WV

City of Beckley

Former Landfill Phase I ESA

Role: Environmental Technician II

> Raleigh County, WV

Various Clients Solar Sites Role: Project Manager > Various Counties, WV & MD



QUINN GRAY

Construction Services



Education

Bachelor of Science, Applied Physics (Minor in Mathematics) West Virginia Wesleyan College

Certifications

- > NRMCA Concrete Technologist – Level II
- > ACI Aggregate Base
- ACI Aggregate Technician -Level I
- ACI Concrete Laboratory Technician - Level I
- > ACI Concrete Field Grade I
- > ACI Concrete Strength
- WVDOH Soil and Aggregate Compaction Technician
- > WVDOH PCC Inspector
- > WVDOH PCC Technician
- WVDOH Asphalt Field Compaction Technician
- > WVDOH Aggregate
 Technician
- WVDOH Aggregate Sampling Inspector
- > WVDOH Concrete Mix Design
- > WVDOH TRET Level IV
- Caterpillar Asphalt Design
 Placement and Compaction
 Certified
- > Responsible Land Disturber
- > OSHA 10
- SafeLand USA Training
- Radiation Safety
- > First-Aid / CPR

Quinn Gray has been with Thrasher for seven years and currently serves as Project Manager and lab manager. Primarily, Quinn oversees projects in the southern region of WV. He has background knowledge in material control measures as well as laboratory production. Additionally, he oversees report documentation, personnel, and project financing.

Quinn's background in physics and mathematics has made him an excellent addition to the Thrasher laboratory team. His primary responsibilities are to run gradations, break cylinders, and report on laboratory findings. Quinn's knowledge of the laboratory procedures and the proper reporting skills makes him an excellent manager.

Quinn also possesses impeccable technical skills such as software and computer course training. While in college, Quinn spent time working in the chemistry and physics lab which has prepared him for his current position.

Experience

Raleigh County Schools Crab Orchard Elementary School Materials Testing Role: Laboratory Supervisor

> Raleigh County, WV

Raleigh County Schools Shady Spring High School Role: Laboratory Supervisor > Raleigh County, WV

WVU Tech Institute Engineering Building Role: Laboratory Supervisor > Raleigh County, WV

City of Beckley

Police Department Role: Construction Services Project Manager

> Raleigh County, WV

City of Beckley Fire Station #3 Role: Construction Services Project Manager > Raleigh County, WV West Virginia University Evansdale Visitor's Center Role: Construction Services Project Manager

> Monongalia County, WV

West Virginia University Engineering Sciences Building Role: Construction Services

Project Manager

> Monongalia County, WV

Young Life Camp Wild Ridge

Role: Construction Services Project Manager

Nicholas County, WV

Boy Scouts of America JW Marriott JR

Leadership Center Role: Construction Services Project Manager

> Fayette County, WV



MICHAEL ALTIZER

Project Inspector



Education Associates Health and Physical Education Fairmont State University

Certifications

- > OSHA 30-hour Construction Safety Training (Pending Started 11/1/2021)
- CPR and First Aid
- SafeLand USA Training
- > MSHA Training
- Explosives Training
- > Foreman Training
- > Impalement's training

Michael Altizer recently joined The Thrasher Group, Inc. as an ESC Inspection Coordinator. Having worked as an Environmental Compliance Coordinator in the mining industry for nearly a decade prior, Michael brings a wealth of knowledge to the Thrasher Team. His love the outdoors, and the want to keep ponds, streams, and people safe has made this career a perfect fit. Michael has a long history of ensuring waterways and wetlands are complaint with DEP/EPA Standards from his past experience working in the mining industry.

Experience

Brooks Run Mining DEP/EPA compliance testing Role: Environmental Compliance Coordinator > Nicholas County, WV

Brooks Run Mining Pond and Stream sampling Role: Environmental Compliance Coordinator > Nicholas County, WV

Brooks Run Mining Pond and Stream Removal Role: Environmental Compliance Coordinator > Nicholas County, WV

Brooks Run Mining Pond and Stream Removal Role: Environmental Compliance Coordinator > Braxton County, WV

Mammoth Coal Company Environmental Maintenance Role: Environmental Compliance Coordinator

> Fayette County, WV

Mammoth Coal Company Construction and Improvements of Roads Role: Environmental Compliance Coordinator > Fayette County, WV

Mammoth Coal Company Construction of Bio-Reactor Ponds Role: Environmental Compliance Coordinator > Fayette County, WV

Mammoth Coal Company Jobsite Inspections Role: Environmental Compliance Coordinator > Fayette County, WV

Mammoth Coal Company Pond and Stream Removal Role: Environmental Compliance Coordinator > Fayette County, WV



MIKE WOODALL

Right-of-Way Acquisition



Certifications

- > ACI Field Testing Technician
- > ACI Aggregate Base
- WVDOH Soil and Aggregate Compaction Technician (S.A.C.T.)
- > WVDOH PCC Inspector
- WVDOH Aggregate Sampling Inspector
- > WVDOH TRET Level III
- > VDOT Asphalt Level I
- > VDOT Asphalt Level II
- > VDOT Soils and Aggregate
- > VDOT Concrete Field
- > VDOT Work Area Protection
- VDOT Intermediate Work Zone (Temporary Traffic Control)
- PE Plastic Fusion Joining Certification
- > KTA Paint Coating Certified
- > American Concrete Institute Certification
- Soil Compaction Nuclear Radiation Gauge
- API-1169 Pipeline Construction Inspector

Affiliations

- > OQ401 Fusion Inspector Training
- > OSHA 10
- > SafeLand USA
- Veriforce Training
- > Energy Innovation
- First Aid/CPR

Mike Woodall is one of the most seasoned construction services professionals at Thrasher. He has been a part of our team for 20 years and has developed an expert level skill set. Mike is extensively trained and experienced with all aspects of construction management, project inspection, and materials testing. He brings a civil focus to construction projects, an important perspective to any building site. Mike has spent a large portion of his career working in Thrasher's laboratories on soil, concrete and aggregate testing. Mike will serve as the Field Services Manager, acting as the primary technical resource for our field testing technicians and inspectors. Mike currently is an active member of a materials testing team in Morgantown.

Experience

North Central West Virginia Airport Runway Safety Area Improvements Role: Construction Inspection > Harrison County, WV

Stout Slip Repair

Construction Management Role: Construction Inspection

> Doddridge County, WV

West Virginia High Tech Consortium Project Role: Construction Inspection > Marion County, WV

White Oaks Business Park Development Role: Senior Project Representative > Harrison County, WV

Mountain Top Beverage New Facility

Role: Construction Inspection

Monongalia County, WV

Wolfe Creek Community Park Project Role: Senior Construction Manager > Fayette County, WV

WVDOH Chestnut Ridge Road Role: Construction Inspection

> Harrison County, WV

Parker Hollow Dam Army Corp of Engineers Materials Testing and Quality Assurance Role: Construction Inspection

> Hardy County, WV

Dominion Energy Greens Run Slip Repair

Role: Construction Inspection

> Harrison County, WV



JOE LOWTHER, PS

Professional Surveyor



Education

Bachelor of Science, Civil Engineering Technology Fairmont State University

Associate of Science, Civil Engineering Fairmont State University

Registrations

Professional Surveyor:

- > West Virginia
- Kentucky
- Pennsylvania

Affiliations

- Safeland
- > Veriforce 909
- > OSHA Training
- First Aid and Medical
 Emergency Action Procedure
- West Virginia Society of Professional Surveyors

Joseph Lowther, PS serves as Senior Survey Manager for the firm, and works on projects for a vast array of clients. Joe has worked with some of Thrasher's largest clientele, and understands the demands and pressures that go along with expansive surveys with many moving parts. His work has included numerous large-scale projects that span all up and down the eastern seaboard. He has primarily worked in communities all across West Virginia and understands the terrain and obstacles that lie in the Mountain State. Additionally, Joe has developed impressive communication and technical skills that allow him to manage large, complex projects without compromising quality or sacrificing important deadlines.

Experience

Raleigh County Memorial Airport Industrial Park Roadway Extension Role: Survey Project Manager > Raleigh County, WV

City of Beckley Pinecrest Development Boundary Survey Role: Principal > Raleigh County, WV

City of Mt. Hope Boundary Survey Role: Principal > Fayette County, WV

Greenbrier County Schools AE Survey Role: Project Manager > Greenbrier County, WV

Greenbrier Sporting Club Oakhurst Subdivision Role: Survey Manager

> Greenbrier County, WV

City of Ripley Design Survey, Construction Layout, and Right-of-Way Services Role: Survey Project Manager > Jackson County, WV

City of Ripley Utility Surveys Role: Survey Project Manager > Jackson County, WV

Greater Paw Paw Public Service District Design Survey, Construction Layout, and Right-of-Way Services Role: Survey Project Manager > Marion County, WV

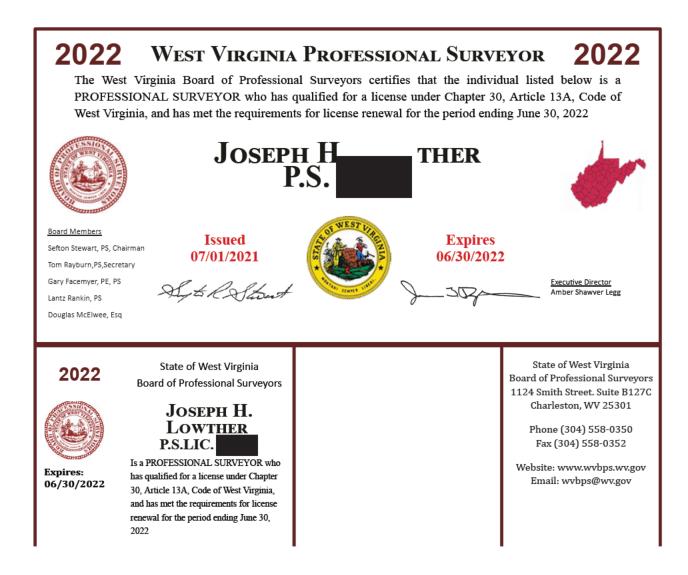
North Central West Virginia Airport Authority Runway Extension Survey Role: Survey Project Manager > Harrison County, WV

White Oaks Business Park Drafting and Design of Roadways

Role: Survey Project Manager
> Harrison County, WV



JOE LOWTHER, PS





CRAIG FRY, CP

Aerial Mapping Specialist



Education Bachelor of Science, Geography

Pennsylvania State University

Registrations

> FAA License Number:

Craig Fry, CP has 23 years of experience in geospatial technologies. He is an expert in photogrammetry, UAV mapping, and remote sensing. Craig has experience with the following UAS Platforms: DJI M600 Pro, Pulse Aerospace Vapor 55 and DJI Phantom. Sensors include: Reigl VUX-1LR (LiDAR Sensor), Phase One iXU 150 (mapping grade camera), Sony A7r (high resolution camera), Zenmuse X5 (high resolution camera), and the Zenmuse XT2 (thermal camera). Software expertise includes: VrOne/VrTwo, Global Mapper, Pix4D, Map Pilot, and DJI's suite of applications.

Experience WVDEP Stereo 3D Drone Mapping Role: Aerial Mapping Specialist > Various Counties, WV

WVDEP AML Squires Creek Refuse and Portals Role: Aerial Mapping Specialist > Preston County, WV

WVDEP AML Lamberts Run Site #7

Role: Aerial Mapping Specialist > Harrison County, WV

WVDEP AML Swamp Run Refuse #1 Role: Aerial Mapping Specialist

> Preston County, WV

WVDEP AML Owl Creek High Wall #2 Role: Aerial Mapping Specialist

> Monongalia County, WV

WVDEP AML Canyon Refuse and Dump Role: Aerial Mapping Specialist

Monongalia County, WV

CNX DTI

Storage Lease Mapping

Role: Aerial Mapping Specialist > Ritchie, Gilmer, Doddridge, Lewis and Harrison Counties, WV

Northern WV and Southwestern PA Orthophotography and LiDAR

Role: Aerial Mapping Specialist

> Various Counties, WV and PA

Countywide

Orthophotography and LiDAR

Role: Aerial Mapping Specialist

Ohio County, WV

Countywide

Orthophotography and LiDAR Role: Aerial Mapping Specialist

> Doddridge County, WV

CNX Gas Stereo 3D Mapping

Role: Aerial Mapping Specialist

Various Counties, PA

DAC Energy

Stereo 3D Drone Mapping Role: Aerial Mapping Specialist

Various Counties, PA



NGE CONSULTING



Locations West Virginia Office 650 MacCorkle Avenue West St. Albans, WV 25177 P: (304) 201-5180 F: (304) 201-5182

Pennsylvania Office

171 Montour Run Road Moon Twp, PA 15108 P: (412) 722-1970 F: (412) 722-1929

Company Overview

NGE was founded in the fall of 2002 by Amy Veltri and John Nottingham, a management team with a combined forty years of industry experience. The family-based entrepreneurial spirit that defined NGE's beginnings remains evident in the innovative solutions we deliver to our loyal clients each and every day. Advances in engineering, science and technology, coupled with regulatory, legal, and compliance pressures create increasingly complex challenges for businesses. NGE strives to keep pace with these changes, with an eye to supporting our clients' changing needs.

NGE has grown into a dependable and flexible environmental and geotechnical consulting firm providing a wide range of professional services, including Environmental Consulting, Geotechnical Engineering and Environmental Construction / Remediation. With clients across the nation, NGE added a second office location in West Virginia in 2003, and seeks to grow in the future by providing consistent, quality service in a family-oriented atmosphere.

Since its inception, NGE has hired and retained the best and brightest talent in the industry. Our staff have relevant experience and qualifications to complete complex environmental and geotechnical projects. NGE's future is bright as we pursue a course of planned, measured growth to meet the challenge of expansion without diluting leadership or weakening the company's ability to perform. After establishing a solid foundation and longstanding reputation in the region and across the nation as an innovative, sophisticated, forward-thinking environmental and geotechnical consulting firm, we are proud of our roots and the progressive environment we have created for our dedicated employees.

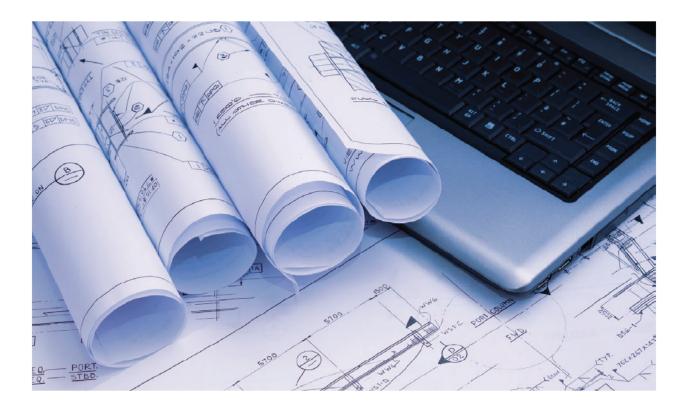
NGE is an organization that is small enough to focus time on each client but with a depth in talent and resources to successfully complete large and complex projects. NGE provides superior environmental and geotechnical services at a manageable price A family oriented work atmosphere has fostered the growth of NGE's staff with the best and brightest talent in the industry.

NGE has garnered a variety of certifications and awards over the years in the environmental and geotechnical consulting industry. These accomplishments and accolades bear testament to the impeccable standards that we strive to achieve at NGE. They help differentiate our company from our competitors and serve to distinguish our employees as the "best of the best."



WORKLOAD AND AVAILABILITY

The Thrasher Group's current workload will allow for immediate response to your needs. You will have specifically appointed team members whose schedules will allow flexibility to enable them to fulfill all deliverables. In addition to these dedicated staff members, Thrasher has the ability to provide additional assistance as needed. The company boasts a staff of more than 300 people in four states, allowing us – if necessary – to pull more personnel to provide a timely response to your needs. This amount of available staff enables us to adjust workloads to ensure the resources needed to meet all project requirements and deadlines are made available, as well as to provide the depth of expertise needed to address any planning, engineering or other challenges which arise. Using a combination of technology and business acumen, Thrasher is better able to support all aspects of a project to the extent requested by our clients. By integrating the mapping, engineering, architectural, planning, surveying, environmental, construction monitoring and materials testing staff, we are able to provide a wealth of experienced talent, bringing the best minds and proven methods to every job.







WVDEP AML Bloomingrose (Tincher) Burning Refuse

Location: Boone County, WV Type of Project: Burning Refuse Reclamation Thrasher Project Manager: Zachary Wright and Brian Knight

Client Contact: Mr. Patrick Murphy, Southern Emergency Engineer 1159 Nick Rahall Greenway Fayetteville, WV 25840 304-574-4465 Bloomingrose was a surface refuse fire that was affecting air quality in the community. Thrasher produced the design plans and specifications to mitigate the burning refuse pile, temporary stream crossings, erosion control, surveying, and utility coordination. Thrasher also conducted the pre-bid meeting for this project.







Squires Creek, located in Newburg, had two refuse piles covering two to three acres of land. The site had remains of a mine building, unvegetated coal refuse, deep mine portals, and acid mine drainage. Nearly all of the land was unvegetated with signs of severe erosion. Additionally, there were several public safety hazards: steep outslopes with well-used ATV trails up and down the face and deep mine portals, one of which was open enough to easily allow entrance.

Some of the major steps of the project included the following: site preparation (clearing and grubbing, removing debris), construction and installation of support areas, maintenance of access roads, construction and installation of drainage control items, re-vegetation of disturbed areas, and regrading of portal sites and refuse sites. WVDEP AML Squires Creek Refuse Location: Preston County, WV Type of Project: Refuse and Portals Thrasher Project Manager: Chad Biller

Client Contact:

Mr. Gregory Smith, PE 101 Cambridge Place | Bridgeport, WV 26330 304-842-1900





This project located in Clarksburg, WV involved 3 wet-seal portals that drain into a 0.7 acre impoundment. The three portals discharge approximately 500 to 3,000 gallons per minute of iron laden water into the main stem of Lambert Run. This project is another in a series of projects aimed at removing Lambert Run (WV MW-16) from the state's 303(d) list of impaired watersheds. This is a project which will combat acid mine drainage emanating from three portals in the central region of the Lambert Run watershed.

Thrasher's plan for the project included, constructing, aeration channels and approximately 4 acres of aerobic wetlands to provide passive treatment of AMD. The proposed treatments have been designed to remove approximately 80% of the acid load. WVDEP AML Lambert's Run Site #7 Location: Harrison County, WV Type of Project: Portals Thrasher Project Manager: Chad Biller

Client Contact: Guardians of the West Fork Mr. John Eleyette 830 Benoni Avenue | Fairmont, WV 26554 304-627-1019





This project, located in Alton, WV, involved a large ferric iron "mushroom" that takes up approximately 0.87 acres. This was caused by acid mine drainage (AMD) emanating from an entombed refuse fill above an unnamed tributary of Swamp Run. The Swamp Run #1 passive AMD treatment system utilized open limestone channels channeling the toxic water to a forebay, which controls larger storm event flow and separates that flow between primary and secondary limestone leech beds. These beds are self-flushing with an automated inline water level control structure. The treated water from the leech beds will then discharge into flushing ponds for solids removal before being conveyed into a wetland finishing pool prior to being released back into the unnamed tributary.

The proposed treatments have been designed to remove approximately 80% of the acid load and should have a lifespan of 20 years. WVDEP AML Swamp Run Refuse #1 Location: Preston County, WV Type of Project: Passive AMD Treatment Thrasher Project Manager: Chad Biller

Client Contact:

Guardians of the West Fork Mr. John Eleyette 830 Benoni Avenue | Fairmont, WV 26554 304-627-1019





This Morgantown, WV project involved three main sites which includes dangerous highwalls with heights between 20 and 70 feet, AMD water impoundments on highwall benches, exposed refuse on Booths Creek stream bank, open and collapsed portals, and existing nonfunctioning wet mine seal.

The scope of work included regrading the highwall bench and adjoining spoil piles to reclaim the highwalls, installing new or replacing the existing wet/modified mine seals for the portals producing AMD, and installing bate gates in the open portals. Additionally, Thrasher installed underdrains or seep collectors to eliminate ponding areas and construct conveyances to safely transport stormwater and mine water in and around the site. An Army Core of Engineers permit was applied for stream bank restoration/repair of Booths Creek and a temporary construction access across the stream. The project site covered a total area of 24.5 acres and reclamation included ± 113,000 cubic yards of earthwork.

WVDEP AML Owl Creek Highwall #2 Location: Monongalia County, WV Type of Project: Highwall Thrasher Project Manager: RJ Hovatter

Client Contact:

Mr. Troy Schell, Northern Design Administrator 101 Cambridge Place | Bridgeport, WV 26330 304-842-1900



WVDEP AML Dans Branch Landslide

Location: Mingo County, WV Type of Project: AML Emergency Landslide Thrasher Project Manager: Chad Biller

Client Contact:

Jason Foster, Emergency Program Administrator 601 57th Street, SE, Box 20 | Charleston, WV 25304 304-926-0499

Dansbranch was the site of an AML emergency landslide that Thrasher worked to remediate. Some of the major steps of the project included the following: site preparation (clearing and grubbing, removing existing structures and debris), construction and installation of support areas, maintenance of access roads, construction and installation of drainage control items to convey stormwater off-site, ensure sediment control compliance with the NPDES permit, and re-vegetation of disturbed areas. Thrasher also had to protect existing structures during grading operations and the installation of permanent rock fall protection above structures. Construction on this project cost approximately \$352,370.



This project included `6,500 cubic yards of earthwork and stabilizing the slope behind the residence.





WVDEP AML Ridgeway Landslide

Location: Harrison County, WV Type of Project: AML Emergency Landslide Thrasher Project Manager: RJ Hovatter

Client Contact:

Eric Simpson, Northern Emergency Engineer 101 Cambridge Place | Bridgeport, WV 26330 304-842-1900



Ridgeway, in Bridgeport, was the site of an AML emergency landslide that The Thrasher Group repaired. Our team engineered the design of the slip remediation and was responsible for bidding out both the soil nail wall and earthwork construction for the project. The project consisted of a soil nail wall that is approximately 36 feet tall and 6,300 cubic yards of earthwork.





West Ridge Multi-Use Development

Location: Monongalia County, WV Type of Project: Full Service Project Thrasher Project Manager: RJ Hovatter

Client Contact:

Mr. Aaron Humberson, Director of Engineering 310 Lawless Road, Suite 130 Morgantown, WV 26501 304-212-3355

The WestRidge Development is a 1,000-acre site that has been designed for a variety of land uses, including retail space, office buildings, industrial space, and trails. The Thrasher Group has worked side-by-side with the owner through each step of the project thus far, from planning and permitting to materials testing and inspection.

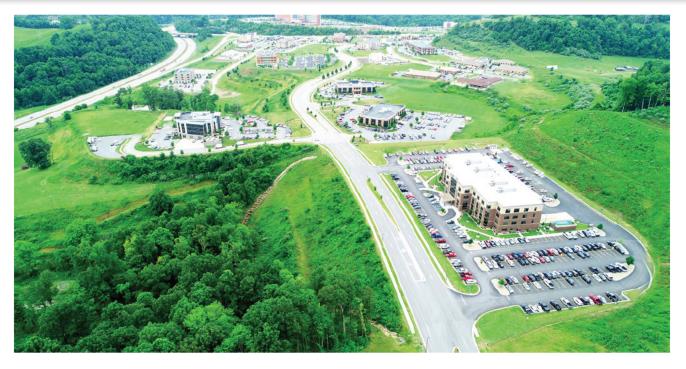
An important component of this process has been addressing the remains of an old strip and deep mine throughout the site. Thrasher's team made the judgement calls on the remediation of these materials. These methods consisted of total overexcavation of the seams to mine grout stabilization. Thrasher helped assist the client in cost-benefit analyses addressing the coal issues with the most cost-effective way for remediation on a site-to-site basis. Thrasher has also worked with NGE Consultants to determine how to handle pyritic material in the building foundation zones.

Since 2015. Thrasher has also provided QA/QC on materials testing and construction inspection for WestRidge Development. Thrasher has been responsible for asphalt testing, concrete testing, soil testing, aggregate testing, rebar inspection, welding and steel inspection and more. This has been a massive undertaking for the Thrasher team, with more than 10 million cubic yards of earthwork moved to date with over 8 miles of roadways, half of which are 4 lane divided roadway, and 13 miles of sidewalk for pedestrians.

Thrasher's Testing/Inspection Included:

- » Aggregate Testing
- » Asphalt Testing
- » Compaction Testing
- » Concrete Testing
- » Rebar Inspection
- » Soil Testing
- » Welding and Steel Inspection





White Oaks Business Park Turnkey Master Plan Location: Harrison County, WV Type of Project: Full Service Project Thrasher Project Manager: Chad Riley

Client Contact: Mr. Woody Thrasher P.O. Box 940 | Bridgeport, WV 26330 304-669-8664

At the Thrasher Group, our team is determined to provide the utmost quality of services for each project. We provided a number of these services for the White Oaks Business Park, including master planning, utility engineering, environmental mitigation, materials testing, and construction management.

Our Construction Project Managers (CPM) are responsible for overseeing a project from the initial planning stages to its successful completion. Throughout the duration of the project, CPMs have a responsibility to meet the client's requirements to achieve an efficient and fiscally viable project. CPMs at Thrasher are experienced in Design, Planning, Budget Analysis, Quality Control Management, Permitting and Building Codes. Most importantly, our CPMs coordinate/communicate effectively with employees, contractors, and clients.

The Environmental Division was also involved in this project. We performed wetland mitigation for three different areas in the park. Each site was a little bit different based on the specifics of each one. Some of the work involved replanting of different vegetation, shrubs, and trees in the area. Another dealt with the re-grading of stream banks.

Coal Strip

The White Oaks Business Park is constructed on the remains of a previous coal strip bench. Therefore, a large portion of the development encountered coal during excavation of the pads. Thrasher has been able to work with local coal buyers during the different phases of construction to sale the coal being removed as part of the development. The revenue from these coal sales was then able to be used to offset a portion of the development cost





GOALS AND OBJECTIVES

A critical step in meeting your goals is first ensuring we understand them. Thrasher's team has thoroughly reviewed the Expression of Interest request and is confident in our ability to deliver the highest-quality solutions to your problems. We are capable of meeting each goal/objective you have outlined and feel strongly that you will be satisfied with the outcomes you receive.

Our team is prepared to complete all of the following services:

- National Environmental Policy Act (NEPA) consultations and documentation
- > Public Participation
- Infrastructure Investment Jobs Act (IIJA) compliance
- > Determine legal ownership of properties
- Obtain exploratory and construction rights of entry
- Provide legal documentation to substantiate legal ownership findings
- Provide current mapping, perform survey and other related services
- Perform Site and Geotechnical Investigations
- Design temporary and permanent access or accesses for construction and future maintenance
- > Slope stabilization
- > Design multiple portal seals and regrades
- > Design to mitigate AMD drainage
- Design reclamation of exposed coal refuse and mine spoil
- Design of drainage conveyances, including drainage channels, underdrains, and/or other controls to safely convey water off-site
- > Mine subsidence stabilization
- Construction quality assurance and quality control (QA/QC)
- Provide resident project representative/ inspector
- Prepare daily construction activity logs summarizing activities

- Provide engineering support and services throughout construction
- > Provide Engineers certification report
- Verify and approve as-builts and final quantities

We understand your goals for the six projects in this contract and will handle them in the following manner:

GOAL/OBJECTIVE 2.1

The Thrasher Group will conduct an environmental assessment (EA) meeting the requirement of WVDEP-AML and OSMRE. This EA, will at a minimum, include correspondence and consideration to the US Fish and Wildlife Agency, the Army Corps of Engineers, Division of Natural Resources, State Historic Preservation Office, and other agencies necessary to meet the NEPA and IIJA environmental requirements.

Thrasher will also develop plans and specifications in a manner that will comply with the IIJA requirements. This may include, but is not limited to, American Iron and Steel requirements, Davis Bacon Act wage requirements, disadvantaged business requirements and other necessary considerations.

► GOAL/OBJECTIVE 2.2

The Thrasher Group will conduct a thorough record search to determine the legal ownership of any properties associated with the project. This may include tax record searches, deed research, property corner locations, legal title searches, owner interviews, and other necessary research. Thrasher will assist with any necessary right-of-way or easement preparation, deed verification, or other document preparation necessary to substantiate or acquire legal rights needed to complete the projects.



► GOAL/OBJECTIVE 2.3

The Thrasher Group will work with WVDEP-AML to develop a cost-effective approach to solve the issues related to these sites. Thrasher will develop plans and specifications for each project that will allow a contractor to efficiently complete the work. We will provide detailed plans to reclaim mine portals, drainage controls and systems, slope stabilization, coal refuse reclamation, stream restoration, subsidence repair, storm water and erosion and sediment control, regrade and revegetation, and all other conditions encountered on the project sites. Finally, we will provide specifications that will require contractors to meet the standard of WVDEP-AML. Standard WVDEP-AML specifications and other materials will be incorporated into the documents.

► GOAL/OBJECTIVE 2.4

The Thrasher Group will prepare and assist with the acquisition of all permits required to complete these projects. This may include, but is not limited to, NPDES stormwater construction permits, Army Corps of Engineers Nationwide or Individual Permits, and/or other necessary permits.

We will develop plans and specifications outlining the contractor requirements during construction and maintenance periods. These specifications will ensure that the permits are well maintained and meet the requirements for release. Thrasher will assist with the preparation of any documents needed to maintain or release the permits.

GOAL/OBJECTIVE 2.5

The Thrasher Group will provide an experience resident project representative (RPR). The RPR will develop daily field activity reports that can be provided in real time or at preferred intervals. Project Managers and/or Professional Engineers will conduct site visits on a regular basis and at critical construction points to ensure quality construction and adherence to the plans and specifications.

Thrasher's in-house Materials Testing Division will provide necessary field representatives to ensure quality assurance and control specifications are being adhered to. Our lab and field personnel can conduct most all necessary material testing practices including but not limited to soil and stone compaction testing and analysis of materials, moisture content testing, concrete and/or grout testing, and many others.



PROJECT MANAGEMENT PLAN

Brian Knight will be the Project Manager for these projects with Zachary Wright providing oversight. They will be supported by a team of qualified staff to perform the necessary tasks such as survey, geotechnical engineering, design, permitting, and bid documents as required for a complete design set and project.

Both Zachary and Brian will communicate with the AML team to determine the preferred timing for each project and will work with you to establish the most realistic and efficient schedule for all projects.

The general project approach we will follow for your project is outlined below:

Step 1 | Site Visit

Our assembled team of engineers and technicians will conduct a site visit. This group will evaluate the project conditions and identify and document potential problem areas. Thrasher will call the necessary utilities prior to being on-site to help identify any known utility locations. We will coordinate with your team and any identified stakeholders to take all the facts into consideration during this process.

Step 2 | Land Rights Acquisition

Thrasher will identify property owners within the project area. This will be completed through deed search. We will also reach out to property owners to obtain the needed permissions to be on property to design and construct the projects.

Step 3 | Conceptual Design and Report

Thrasher will prepare a conceptual design for the project at hand. Where applicable, we will also provide design alternatives for consideration. We will then prepare a written report of the conceptual designs and outline any issues.

Step 4 | Construction Documents

Our team will provide design solutions and construction documents to the WVDEP-AML for the project. These plans will be carried forward to final design based upon the conceptual design report. In addition, with Thrasher's experience working on various similar projects, a construction safety and phasing plan, as required, will be developed and reviewed with the WVDEP-AML to ensure an efficient and safe project during construction.

We will complete the final design documents based upon comments received and conclusions throughout the design review process. Our field evaluations and design approach will specifically address these issues in the construction documents.

Step 5 | Cost Estimates

Our project team will provide itemized cost estimates at the following stages: conceptual design, preliminary design, and final design.

Step 6 | Bid Process

We will assist the WVDEP-AML in preparation of the bid documents, attend pre-bid meetings, and assist in issuance of addenda.

Step 7 | Construction Administration

The project team will review project submittals, attend project meetings, and provide a Resident Project Representative to inspect the construction being completed. The project team will also provide final punch list inspection at project completion.

Thrasher will also develop a program to keep your team abreast of potential construction issues.

Step 8 | Project Close Out

Upon completion of the project, the Thrasher team will review and comment or approve contractor's as-builts and final quantities. All permits will be closed/terminated at the completion of the warranty period.





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.

| (Name, Title) | Juche Ming | |
|---------------|------------|--|
| | | |

(Printed Name and Title) Zachary Wright, Senior Project Manager

(Address) 155 Blue Angel Lane, Beaver, WV 25813

(Phone Number) / (Fax Number) $\frac{304-431-7800 | 304-425-0445}{2}$

(email address) zwright@thethrashergroup.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through *wv*OASIS, I certify that: I have reviewed this Solicitation/Contract 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/Contract 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.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

here Bell

sentative Name, Title)

Chadwick Biller, PE - Principal-in-Charge 07/05/2022 (Printed Name and Title of Authorized Representative) (Date)

304-624-4108 | 304-624-7831

(Phone Number) (Fax Number)

cbiller@thethrashergroup.com

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:CEOI 0313 DEP2200000020

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received: (Check the box next to each addendum received)

| [] Addendum No. 1 | [] Addendum No. 6 |
|-------------------|--------------------|
| [] Addendum No. 2 | [] Addendum No. 7 |
| [] Addendum No. 3 | [] Addendum No. 8 |
| [] Addendum No. 4 | [] Addendum No. 9 |
| [] Addendum No. 5 | [] Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

The Thrasher Group, Inc.

had Bell

07/05/2022

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

| WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION | | | | | |
|--|------------|---------------------------------|---------------------------|---------------|-------------------------|
| AML CONSULTANT QUALIFICATION QUESTIONNAIRE Attachment "A" | | | | | |
| PROJECT NAMEDATE (DAY, MONTH, YEAR)AML Contract 2 Project SouthJuly 5, 2022CEOI 0313 DEP2200000020 | | FEIN 55-0633596-6 | | | |
| 1. FIRM NAME | | 2. HOME OFFICE BUSINESS ADDRESS | | 3. FORMER | FIRM NAME |
| The Thrasher Group, Inc. | | 600 White Oaks | Blvd. | Thrasher | Engineering |
| | | Bridgeport, WV | 26330 | | |
| 4. HOME OFFICE TELEPHONE | 5. ESTABL | ISHED (YEAR) | 6. TYPE OWNERSHIP | | 6a. WV REGISTERED DBE |
| 304-624-4108 | 1983 | | Individual Corporat | tion X | (Disadvantaged Business |
| | | | Partnership Joint-Ve | | Enterprise) |
| | | | | | YES NOX |
| 7. PRIMARY AML DESIGN OFFICE: | ADDRESS/ | TELEPHONE/ PERSO | N IN CHARGE/ NO AMI, DESI | GN PERSON | |
| 600 White Okas Boulevard. Bridgeport, WV 26330 / 304-624-4108 / Chad Biller / 11 8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Woody Thrasher - President and CEO Lauren Lint - CFO Clay Riley - COO of Design Services Clayton White - COO of Field Services Clayton Clayton | | | | | |
| 9. PERSONNEL BY DISCIPLINE | | | | | |
| 14 ADMINISTRATIVE | — ECOLOGI | STS | 3 LANDSCAPE ARCHITEC | TS | 2 STRUCTURAL ENGINEERS |
| 8 ARCHITECTS | — ECONOMI | STS | 1 MECHANICAL ENGINEE | RS | 100 SURVEYORS |
| - BIOLOGIST | 2 ELECT | RICAL ENGINEERS | - MINING ENGINEERS | | 3 TRAFFIC ENGINEERS |
| 20 CADD OPERATORS | 10 ENVIR | ONMENTALISTS | 3 PHOTOGRAMMETRISTS | | 48 OTHER |
| - CHEMICAL ENGINEERS | 1 ESTIMA | | 2 PLANNERS: URBAN/REG | | |
| 44 CIVIL ENGINEERS | 3 GEOLOG | | 44 SANITARY ENGINEER | S | |
| 8 CONSTRUCTION INSPECTORS | — HISTOR | - | - SOILS ENGINEERS | | |
| 3 DESIGNERS | 1 HYDROL | OGISTS | - SPECIFICATION | | 316 TOTAL PERSONNELL |
| — DRAFTSMEN | | | 3 Writers | | |
| TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 39 *RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work. | | | | | |
| 10. HAS THIS JOINT-VENTURE WC | RKED TOGET | HER BEFORE? | YES VNO - Not Appl | licable | |
| | | | | | |

| 11. OUTSIDE KEY CONSULTANTS/SUB-CON | SULTANTS ANTICIPATED TO BE USED. Attach | "AML Consultant Qualification Questionnaire". |
|---|---|---|
| NAME AND ADDRESS: | SPECIALTY: | WORKED WITH BEFORE |
| NGE Consulting 650 MacCorkle Ave. St. Albans, WV 25177 304-201-5180 | Geotechnical Engineering | Yes No |
| NAME AND ADDRESS: | SPECIALTY: | WORKED WITH BEFORE |
| | | Yes |
| | | No WORKER WITH REFORE |
| NAME AND ADDRESS: | SPECIALTY: | WORKED WITH BEFORE |
| | | Yes |
| | | No |
| NAME AND ADDRESS: | SPECIALTY: | WORKED WITH BEFORE |
| | | Yes |
| | | No |
| NAME AND ADDRESS: | SPECIALTY: | WORKED WITH BEFORE |
| | | Yes |
| NAME AND ADDRESS | | |
| NAME AND ADDRESS: | SPECIALTY: | WORKED WITH BEFORE |
| | | Yes |
| | | No |
| NAME AND ADDRESS: | SPECIALTY: | WORKED WITH BEFORE |
| | | Yes |
| | | No |
| NAME AND ADDRESS: | SPECIALTY: | WORKED WITH BEFORE |
| | | Yes |
| | | No |
| NAME AND ADDRESS: | SPECIALTY: | WORKED WITH BEFORE |
| | | Yes |
| | | No |

| 12. | A. | Is | your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering? |
|-----|----|--------------|---|
| | | V YES | Description and Number of Projects: Thrasher performs engineering design services to the WV DEP for drainage, portal seals, highwall and other remediation projects, as well as water line and water treatment plant projects related to AML. Numerous projects involving land remediation, storm water drainage, slip repair, mass grading in relations to site development and highway projects are engineered by the firm on a regular basis. |
| | | NO | |
| | В. | Is | your firm experienced in Soil Analysis? |
| | | VYES | Description and Number of Projects: Thrasher maintains an AASHTO Certified materials testing lab at both the Bridgeport and Beckley offices. Soil analysis experience is specifically in gradation and classification. |
| | | NO | |
| | С. | Is | your firm experienced in hydrology and hydraulics? |
| | | VYES | Description and Number of Projects: Throughout the state, Thrasher has done planning and design of bridges for the West Virginia department of highways and the design of multiple private and municipal development projects located within floodplains. Thus, Thrasher has extensive experience in hydrology. We also have a vast amount of experience in hydraulic modeling for water and wastewater projects throughout West Virginia |
| | | NO | |
| | D. | Doe | s your firm produce its own Aerial Photography and Develop Contour Mapping? Description and Number of Projects: Thrasher acquires aerial imagery using in-house resources on |
| | | • | smaller area projects. We own and operate three UAS (unmanned aerial systems) for a variety of imagery missions for projects up to approximately 500 acres. For large mapping projects, we use commercial flying service. Thrasher has three FAA Certified pilots. Thrasher has expertise and software in-house and routinely performs aero triangulation, planimetric compilation, surface modeling, contour mapping and digitally rectified imagery. Thrasher has mapped and flown hundreds of projects within the last year. |
| | | NO | |
| | E. | | your firm experienced in domestic waterline design? (Include any experience your firm has in luation of aquifer degradation as a result of mining.) |
| | | V YES | Description and Number of Projects: Thrasher has designed more water line systems than any other West Virginia firm. Projects include new systems, extensions, and replacements of water line distribution systems, many of which have been affected by AML. Design of the projects includes lines, booster stations, water treatment plants, and storage facilities. Thrasher's analysis and design also includes improvements and alternatives for water sources deemed ground water under the direct effect of surface water. |
| | | NO | |
| | F. | Is | your firm experienced in Acid Mine Drainage |
| | | Eva | luation and Abatement Design? |
| | | V YES | Description and Number of Projects: Thrasher has been awarded and has successfully completed numerous reclamation projects for the WV DEP related specifically to acid mine drainage and abatement, as well as multiple passive treatment systems designed to watershed protection groups. The Charleston, WV branch of our company designed and award-winning water treatment plant for Martinka mines in Marion County, West Virginia to treat mine drainage. |
| | | 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 | | |
|---|---------------------------------------|-----------------------|---|
| Biller, Chadwick D Principal | YEARS OF AML DESIGN EXPERIENCE: 18 | DESIGN EXPERIENCE: 23 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 23 |

Brief Explanation of Responsibilities

Chadwick Biller has experience in all aspects of Engineering with specific emphasis on site development, highways, roads, bridges, and airports. Chad joined The Thrasher Group, Inc. in 1999 and is a partner of The Thrasher Group. Chad is responsible for WV DEP AML projects and public and private site development projects, specializing in airports, highways, roads, and bridges. As project manager for all of the firm's WVDOT/DOH projects, he has knowledge of the state and federal building standards.

EDUCATION (Degree, Year, Specialization) Bachelor of Science, Civil Engineering, 1992 - West Virginia University

| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS | REGISTRATION (Type, Year, State) |
|--|--|
| American Society of Civil Engineers | Professional Engineer, 1998, West Virginia |
| Society of American Military Engineers | Professional Engineer, 1999, Pennsya # |
| National Society of Professional Engineers | Professional Engineer, 2000, Ohio # |
| | |

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

| AME & TITLE (Last, First, Middle Int.) | YEARS OF EXPERIENCE | |
|--|--------------------------|---|
| OVATTER, RICHARD (RJ) - QA/QC | 15 DESIGN EXPERIENCE: 15 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 15 |

Brief Explanation of Responsibilities

As project manager, RJ has completed the site design, grading, storm water and erosion and sediment control plans for over twenty private and commercial development. He has also managed over 35 Abandoned Mine Land Emergency and Abandoned Mine Land projects in West Virginia, Maryland and Ohio. RJ has also been the lead on numerous slip remediation projects.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2002, Civil Engineering Technology - Fairmont State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS N/A

REGISTRATION (Type, Year, State) Professional Engineer, 2009, West Virginia Professional Engineer, 2010, Pennsylvania #

| 13. PERSONAL HISTORY STATEMENT OF PRI | NCIPALS AND ASSOCIATES RES | PONSIBLE FOR AML PROJECT DES | IGN (Furnish complete | | |
|--|---|---|---|--|--|
| data but keep to essentials) | | | _ | | |
| | | VENDO OF EVDEDIENCE | | | |
| NAME & TITLE (Last, First, Middle Int.) | | YEARS OF EXPERIENCE | | | |
| | YEARS OF AML DESIGN EXPERIENC | | YEARS OF DOMESTIC | | |
| Wright, Zachary - Sr. Project Manager | 3 | DESIGN EXPERIENCE: 20 | WATERLINE DESIGN | | |
| | | | EXPERIENCE: 3 | | |
| | | | | | |
| Brief Explanation of Responsibilities | • | | • | | |
| | | wantal as wallow as availants throughout | the Control Annolachian and Mid | | |
| Zachary Wright, MBA, has 20 years' experience mana | | | | | |
| Atlantic Regions. A large portion of Zachary's experie | ÷ | | | | |
| sites across five states, the techniques and requireme | nts of reclamation and emergency res | sponse are second nature for Zachary. Ad | ditionally, he has managed mine- | | |
| related emergency responses from start to finish and | has the knowledge to guickly and effe | ectively mobilize staff and develop sound | engineering plans. | | |
| EDUCATION (Degree, Year, Specializati | | | | | |
| Master of Business Administration, 2020, Project Mar | | | | | |
| | agement | | | | |
| Master of Science, 2005, Information Management | | | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATI | ONS | REGISTRATION (Type, Year, | State) | | |
| | | | | | |
| | | | | | |
| N/A | | N/A | | | |
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| 13. PERSONAL HISTORY STATEMENT OF PRI | NCIPALS AND ASSOCIATES RES | PONSIBLE FOR AML PROJECT DES | IGN (Furnish complete | | |
| 13. PERSONAL HISTORY STATEMENT OF PRI data but keep to essentials) | NCIPALS AND ASSOCIATES RES | PONSIBLE FOR AML PROJECT DES | IGN (Furnish complete | | |
| | NCIPALS AND ASSOCIATES RES | PONSIBLE FOR AML PROJECT DES | IGN (Furnish complete | | |
| data but keep to essentials) | NCIPALS AND ASSOCIATES RES YEARS OF AML DESIGN | | IGN (Furnish complete YEARS OF DOMESTIC | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) | YEARS OF AML DESIGN | YEARS OF EXPERIENCE YEARS OF AML RELATED | - | | |
| data but keep to essentials) | | YEARS OF EXPERIENCE | YEARS OF DOMESTIC WATERLINE DESIGN | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager | YEARS OF AML DESIGN EXPERIENCE: 7 | YEARS OF EXPERIENCE YEARS OF AML RELATED | YEARS OF DOMESTIC | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) | YEARS OF AML DESIGN EXPERIENCE: 7 | YEARS OF EXPERIENCE YEARS OF AML RELATED | YEARS OF DOMESTIC WATERLINE DESIGN | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities | YEARS OF AML DESIGN EXPERIENCE: 7 | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experie | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experie | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash small engineering firms and large consulting firms. Si | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experie | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experie | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash small engineering firms and large consulting firms. Si meet deadlines and maintain budgets. | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experience then, Mr. Knight has been diligen | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash small engineering firms and large consulting firms. Si meet deadlines and maintain budgets. EDUCATION (Degree, Year, Specializati | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experience then, Mr. Knight has been diligen | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash small engineering firms and large consulting firms. Si meet deadlines and maintain budgets. | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experience then, Mr. Knight has been diligen | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash small engineering firms and large consulting firms. Si meet deadlines and maintain budgets. EDUCATION (Degree, Year, Specializati | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experience then, Mr. Knight has been diligen | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash small engineering firms and large consulting firms. Si meet deadlines and maintain budgets. EDUCATION (Degree, Year, Specializati | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experience then, Mr. Knight has been diligen | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana, t in providing high-quality and accurate p | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with project design and construction that | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash small engineering firms and large consulting firms. Si meet deadlines and maintain budgets. EDUCATION (Degree, Year, Specializati N/A MEMBERSHIP IN PROFESSIONAL ORGANIZATI | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experience then, Mr. Knight has been diligen | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana t in providing high-quality and accurate p REGISTRATION (Type, Year, | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with project design and construction that | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash small engineering firms and large consulting firms. Si meet deadlines and maintain budgets. EDUCATION (Degree, Year, Specializati N/A | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experience then, Mr. Knight has been diligen | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana, t in providing high-quality and accurate p | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with project design and construction that | | |
| data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Knight, Brian - Project Manager Brief Explanation of Responsibilities Brian Knight serves as a Project Manager with Thrash small engineering firms and large consulting firms. Si meet deadlines and maintain budgets. EDUCATION (Degree, Year, Specializati N/A MEMBERSHIP IN PROFESSIONAL ORGANIZATI | YEARS OF AML DESIGN EXPERIENCE: 7 er. Brian has over 18 years of experience then, Mr. Knight has been diligen | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 14 ence as a drafter, project engineer/mana t in providing high-quality and accurate p REGISTRATION (Type, Year, | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:12 ger, and project administrator with project design and construction that | | |

| PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) | INCIPALS AND ASSOCIATES RESPO | NSIBLE FOR AML PROJECT DESIGN | (Furnish complete |
|---|--|---|---|
| NAME & TITLE (Last, First, Middle Int.) | | YEARS OF EXPERIENCE | |
| | YEARS OF AML DESIGN EXPERIENCE: | YEARS OF AML RELATED DESIGN | YEARS OF DOMESTIC |
| Brown, Anthony - Project Engineer | 10 | EXPERIENCE: 13 | WATERLINE DESIGN EXPERIENCE: 13 |
| Brief Explanation of Responsibilitie | 3 | | |
| Anthony Brown, PE, has over 15 years stormwater, demolition, FEMA mitigat conception to completion. This inclu construction management, financial m | tion and environmental compliandes cost estimation, funding | ance. Anthony has expertise in acquisition, design, drafting | advancing a project from |
| EDUCATION (Degree, Year, Specializat | ion) | | |
| Bachelor of Science , 2007, Indust: | rial Engineering | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZAT | IONS | REGISTRATION (Type, Year, Sta | ate) |
| N/A | | Professional Engineer, 2015 | , West Virginia # |
| PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) | INCIPALS AND ASSOCIATES RESPO | NSIBLE FOR AML PROJECT DESIGN | (Furnish complete |
| NAME & TITLE (Last, First,MiddleInt.) | | YEARS OF EXPERIENCE | |
| Cook, Sarah - Geologist and Environmental Specialist | YEARS OF AML DESIGN EXPERIENCE: 1 | YEARS OF AML RELATED DESIGN EXPERIENCE: 1 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 3 |
| Brief Explanation of Responsibilitie Sarah Cook serves as a Project Coordinate utility sector, having worked on numerous engineering support for clients by assis estimates. Sarah works directly with Thr. geological studies, preliminary engineer | or and geologist in Thrasher's Wa s water, sewer, and stormwater pr ting with project planning initia asher's team of engineers to prep ing reports, and other engineering | rojects in her career. She provid atives, including scopes of work, pare and review funding applicati | les environmental and proposals, and cost |
| EDUCATION (Degree, Year, Specializat) | | | |
| Master of Science, 2019, University of B Bachelor of Arts, 2016, Environmental Ge | eoscience | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZAT | IONS | REGISTRATION (Type, Year, St | ate) |
| Water Environment Federation Students and Water Environment Federation Water Leader: West Virginia Water Environment Associatio Pittsburgh Collaboratory for Water Geological Society of America | ship Institute | | |

| | THATDALA AND ACCCUTADA F | | | |
|---|---|---|--|---|
| PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) | INCIPALS AND ASSOCIATES RESPO | NSIBLE FOR A | ML PROJECT DESIGN | (Furnish complete |
| NAME & TITLE (Last, First, Middle Int.) | | YEARS OF | EXPERIENCE | |
| Wilkes, Samuel - Environmental Scientist | YEARS OF AML DESIGN EXPERIENCE: | YEARS OF AML EXPERIENCE: | RELATED DESIGN | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| Brief Explanation of Responsibilitie | S | | | |
| Sam Wilkes, LRS, PWS is an Environme Professional Wetland Scientist and a consulting experience as a project r watershed management, restoration, r experienced at providing project ove quality, environmental media data, a | a WVDEP certified Licensed Rem manager and senior environment natural resource conservation ersight and managing field tea | mediation Spe tal scientist , and hazardo ams and conti | ecialist. He bring , providing tech ous materials prog ractors collecting | gs over 23 years of nical support to grams. Sam is |
| EDUCATION (Degree, Year, Specializat | ion) | | | |
| Master of Science, 2003, Environment Bachelor of Science, 1996, Earth & H | | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZAT | IONS | REGISTRATIO | N (Type, Year, Sta | ate) |
| | | Professional Wetland Scientist, 2018 Licensed Remediation Specialist, 2020 | | |
| PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) | INCIPALS AND ASSOCIATES RESPO | | | (Furnish complete |
| NAME & TITLE (Last, First, Middle Int.) | | | EXPERIENCE | |
| Gray, Quinn - Construction Services | YEARS OF AML DESIGN EXPERIENCE: 0 | YEARS OF AML EXPERIENCE: | | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| Brief Explanation of Responsibilitie | 3 | 1 | | |
| Quinn Gray has been with Thrasher for seven years and currently serves as Project Manager and lab manager. Primarily, Quinn oversees projects in the southern region of WV. He has background knowledge in material control measures as well as laboratory production. Additionally, he oversees report documentation, personnel, and project financing. | | | | |
| EDUCATION (Degree, Year, Specializat Bachelor of Science, 2014, Applied Ph | nysics (Minor in Mathematics) | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZAT | IONS | REGISTRATIO | N (Type, Year, Sta | ate) |
| N/A | | N/A | | |

| PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) | INCIPALS AND ASSOCIATES RESPO | NSIBLE FOR AML PROJECT DESIGN | (Furnish complete |
|--|---|--|---|
| NAME & TITLE (Last, First, Middle Int.) | | YEARS OF EXPERIENCE | |
| | YEARS OF AML DESIGN EXPERIENCE: | YEARS OF AML RELATED DESIGN | YEARS OF DOMESTIC |
| Altizer, Michael - Project Inspector | 0 | EXPERIENCE: 0 | WATERLINE DESIGN EXPERIENCE: 0 |
| Brief Explanation of Responsibilitie | S | | |
| Michael Altizer recently joined The Environmental Compliance Coordinator knowledge to the Thrasher Team. His this career a perfect fit. Michael 1 Standards from his past experience | r in the mining industry for a love the outdoors, and the wa has a long history of ensuring | nearly a decade prior, Michael ant to keep ponds, streams, an g waterways and wetlands are o | l brings a wealth of nd people safe has made |
| EDUCATION (Degree, Year, Specializat | ion) | | |
| Associates, 1999, Health and Physical | L Education | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZAT | IONS | REGISTRATION (Type, Year, St | ate) |
| N/A | | N/A | |
| PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) | INCIPALS AND ASSOCIATES RESPO | NSIBLE FOR AML PROJECT DESIGN | (Furnish complete |
| 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 |
| Woodall, Mike - Right-of-Way Acquistion | 0 | 0 | EXPERIENCE: 0 |
| Brief Explanation of Responsibilitie | S | | |
| Mike has spent a large portion of h testing. Mike will serve as the Fie testing technicians and inspectors. | ld Services Manager, acting a | | |
| EDUCATION (Degree, Year, Specializat | ion) | | |
| N/A | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZAT | IONS | REGISTRATION (Type, Year, St | ate) |
| N/A | | N/A | |

| 13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) | INCIPALS AND ASSOCIATES RESPO | NSIBLE FOR AML PROJECT DESIG | (Furnish complete | | | | | |
|--|--|---|--|--|--|--|--|--|
| NAME & TITLE (Last, First, Middle Int.) | | YEARS OF EXPERIENCE | | | | | | |
| | YEARS OF AML DESIGN EXPERIENCE: | | YEARS OF DOMESTIC | | | | | |
| Lowther, Joe - Professional Surveyor | 0 | EXPERIENCE: | WATERLINE DESIGN EXPERIENCE: | | | | | |
| Brief Explanation of Responsibilitie | S | | | | | | | |
| Joseph Lowther, PS works on projects clientele, and understands the deman work has included numerous large-sca worked in communities all across Wes State. Additionally, Joe has develop complex projects without compromisin | ds and pressures that go alon le projects that span all up st Virginia and understands th ed impressive communication a | ng with expansive surveys wit and down the eastern seaboar ne terrain and obstacles that and technical skills that all | h many moving parts. His d. He has primarily lie in the Mountain | | | | | |
| EDUCATION (Degree, Year, Specializat Bachelor of Science,2005,Civil Engine Associate of Science,2005,Civil Engine | neering Technology | | | | | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZAT | IONS | Professional Surveyor, , Professional Surveyor, , | tate) West Virginia Kentucky Pennsylvania | | | | | |
| PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) | INCIPALS AND ASSOCIATES RESPO | NSIBLE FOR AML PROJECT DESIG | (Furnish complete | | | | | |
| 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 | | | | | |
| Fry, Craig - Aerial Mapping | 5 | 5 | EXPERIENCE: 5 | | | | | |
| Brief Explanation of Responsibilitie | 5 | • | | | | | | |
| Craig Fry has 23 years of experience and remote sensing. Craig has exper and DJI Phantom. | e in geospatial technologies. ience with the following UAS : | He is an expert in photogram Platforms: DJI M600 Pro, Puls | metry, UAV mapping, se Aerospace Vapor 55 | | | | | |
| EDUCATION (Degree, Year, Specializat | ion) | | | | | | | |
| Bachelor of Science, 1994, Geograp | hy | | | | | | | |
| | | | | | | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZAT | IONS | REGISTRATION (Type, Year, S | tate) | | | | | |

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

The Thrasher Group, Inc. will design work for AML utilizing one of the largest networks of computer aided design (CAD) equipment, software and trained personnel in the state of West Virginia.

Connected through a virtual private network, our cad staff has the ability to share necessary plans among our locations. This will allow work designed for AML to be prepared and updated at the office location that best meets the needs of the scope of services.

Civil 3D, Carlson and Microstation V8 Software is utilized at 35 CAD stations throughout our locations. Additionally, equipment includes 10 large format (Size E) plotters and 5 large format plotter / scanners. CAD plans are prepared by both dedicated cad employees and by staff engineers and engineering technicians in each of the firm's offices.

Thrasher also utilizes top-of-the line survey equipment. Our survey work is accomplished with global positioning systems (GPS) and electronic distance measuring (EDM)

survey stations with data gathering capabilities. The survey crews and office support staff generate mapping deliverables in virtually any digital format referenced to

specified projection systems.

Additional survey services include: high accuracy monumentation, astronomic observations / orientation, NGS blue booking, hydrographic, terrestrial scanning, 3D asbuilts,

3d monitoring, sub-surface utility location / designation. The field crews are all equipped with late model four-wheel drive vehicles stocked with the most modern

equipment available to perform professional land surveying services.

- 111 TRIMBLE GNSS UNITS
- 68 TRIMBLE ROBOTS
- 2 PRECISE DIGITAL FIRST ORDER LEVELS WITH INVAR RODS
- 39 LEICA, NIKON OR TOPCON TOTAL STATIONS ALL MANAGED BY
- TRIMBLE TSC3 FIELD COMPUTERS
- 2 REMOTE CONTROLLED/UNMANNED MAPPING AERIAL PLATFORM
- HYDROGRAPHIC SURVEY VESSEL
- CIVIL 3D
- CARLSON AND MICROSTATION V8 SOFTWARE
- 35 CAD STATIONS
- 10 LARGE FORMAT (SIZE E) PLOTTERS AND
- 5 LARGE FORMAT PLOTTER / SCANNERS
- 7 3D SUB-SURFACE UTILITY LOCATORS

| PROJECT NAME, TYPE AND | NAME AND ADDRESS OF | NATURE OF YOUR FIRM'S | S ESTIMATED CONSTRUCTION | PERCENT COMPLETE |
|--|---|--|----------------------------|------------------|
| LOCATION | OWNER | RESPONSIBILITY | COST | |
| OWL CREEK HIGHWALL #2 ABANDONED MINE LANDSENVIRONMENTAL PROTECTION OFFICE OF AML&RAND RECLAMATION NEAR MORGANTOWN WV MONONGALIA COUNTY601 57TH ST SE CHARLESTO WV 25304 | | PROVIDE ENGINEERING SERVICES TO MITIGATE MINING RELATED PROBLEMS ASSOCIATED WITH ABANDONED MINE LANDS (PERMITTING, DESIGN, CONSTRUCTIONMONITORING) | \$1,600,000 | 90% |
| KEMPTON REFUSE REHABILITATION IUCKER COUNTY, WV NEAR THOMAS ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 | | | TBD | 0% |
| ATFIELD-MCCOY REGIONAL ECREATION AUTHORITY WIN OLLOW CAMPGROUND AML ILOT OGAN COUNTY, WV MR. JEFFREY LUSK, EXECUTIVE DIRECTOR 179 RITA MALL ROAD MAN, WV 2563 304-692-6782 | | | TBD | 30% |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| TOTAL NUMBER OF PROJECT | S: 3 of our current projects listed | TOTAL EST | IMATED CONSTRUCTION COSTS: | \$ N/A |

| 16. CURRENT ACTIVITI | ES ON WHICH YOUR FI | RM IS SERVING AS A S | UB-CONSULTANT TO OTH | ERS | | | | | | |
|------------------------------------|-----------------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|--|--|--|--|--|
| 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 | | | | | |
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| | | N/ | | | | | | | | |

| 17. COMPLETED WORK WITHIN LA | ST 5 YEARS ON WHICH YOU WERE THE DE | ESIGNATED ENGINEER OF RECORD: | | |
|---|--|---|-------------|-------------|
| AML RELATED PROJECTS FOR | THE WVDEP AND WATERSHED PROTECTION | N GROUPS | | |
| PROJECT NAME, TYPE | NAME AND ADDRESS | ESTIMATED CONSTRUCTION COST | YEAR | CONSTRUCTED |
| AND LOCATION | OF OWNER | | | (YES OR NO) |
| STOWE (PRINCE) LANDSLIDE | WV DEP, OFFICE OF AML&R | | | |
| EMERGENCY AML | 601 57 [™] STREET, SE | \$220,000.00 | 2016 | YES |
| LOGAN COUNTY, WV | CHARLESTON, WV 25304 | | | |
| LAMBERTON RUN SITE 7 | GUARDIANS OF THE WEST FORK | | | |
| PASSIVE AMD TREATMENT SYSTEM | 830 BENONI AVE. | \$340,000.00 | 2016 | YES |
| HARRISON COUNTY, WV | FAIRMONT, WV 2554 | | | |
| SWAMP RUN #1 | BUCKHANNON RIVER WATERSHED ASSOCIATION | | | |
| PASSIVE AMD TREATMENT SYSTEM | 112 FAYETTE STREET, | \$440,000.00 | 2016 | NO |
| UPSHUR COUNTY, WV | BUCKHANNON, WV 26201 | | | |
| NUTTER RUN LANSLIDE | WV DEP, NORTHERN EMERGENCY | | | |
| EMERGENCY AML | 101 CAMBRIDGE PLACE BRIDGEPORT, WV 26330 | \$10,000,000 | 2017 | YES |
| HARRISON COUNTY, WV | 304-842-1900 | | | |
| RIDGEWAY DRIVE LANDSLIDE | WV DEP, NORTHERN EMERGENCY | | | |
| EMERGENCY AML | 101 CAMBRIDGE PLACE BRIDGEPORT, WV 26330 | \$20,000,000 | 2018 | YES |
| HARRISON COUNTY, WV | 304-842-1900 | | | |
| ED GOWER HIGHWALL | WV DEP, OFFICE OF AML&R | | | |
| AML GRANT | 601 57 [™] STREET, SE | \$11,080,655 | 2019 | YES |
| UPSHUR COUNTY, WV | CHARLESTON, WV 25304 | | | |
| HATFIELD-MCCOY REGIONAL RECREATION | MR. JEFFREY LUSK, EXECUTIVE DIRECTOR | MASTER PLANNING, RECLAMATION WORK, | \$1,700,000 | YES |
| AUTHORITY | 179 RITA MALL ROAD MAN, WV 2563 | UTILITY EXTENSIONS, BRIDGE DESIGN, ROAD | | |
| ASHLAND RESORT AML PILOT | 304-692-6782 | IMPROVEMENTS, ENVIRONMENTAL | | |
| MCDOWELL COUNTY, WV | | ASSESSMENTS, PERMITTING | | |
| ISAAC CREEK LANDSLIDE | | DEVELOP CONSTRUCTION AND EROSION AND | | |
| ABANDONED MINE LANDS | ENVIRONMENTAL PROTECTION | SEDIMENT PLANS ALONG WITH TECHNICAL | | |
| AND RECLAMATION | OFFICE OF AML&R | SPECIFICATIONS TO STABILIZE THE LANDSLIDE | \$890,000 | YES |
| AND RECLAMATION NEAR DOLA WV HARRISON COUNTY | 601 57TH ST SE CHARLESTON WV 25304 | AND RE-ESTABLISH THE ALIGNMENT OF ISAAC | | |
| NEAR DOLA WV HARRISON COUNTY | | CREEK ROAD (CR 16-1) | | |
| HATFIELD-MCCOY REGIONAL RECREATION | MR. JEFFREY LUSK, EXECUTIVE DIRECTOR | ENVIRONMNETAL PERMITTING AND | \$350,000 | YES |
| AUTHORITY IVY BRANCH AML PILOT | 179 RITA MALL ROAD MAN, WV 2563 | ASSESSMENTS, NEPA DOCUMENTATION, | | |
| PROJECT | 304-692-6782 | ENGINEERING DESIGN, BIDDING, | | |
| BOONE COUNTY, WV | | CONSTRUCTION ADMINISTRATION | | |

| | | ICH YOUR FIRM HAS BEEN A SUB-CON | ISULTANT | TO OTHER FIRMS | (INDICATE PHASE |
|--------------------------|---|--------------------------------------|-----------|-----------------|-----------------|
| PROJECT NAME, TYPE | CH YOUR FIRM WAS RESPONSI NAME AND ADDRESS | ESTIMATED CONSTRUCTION COST | YEAR | CONSTRUCTED | FIRM ASSOCIATED |
| AND LOCATION | OF OWNER | OF YOUR FIRM'S PORTION | ILAK | (YES OR NO) | WITH |
| AND DOUTION | OF OWNER | OF TOOK FINITS TOKITON | + | | NA T T TT |
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| 10 Use this space to | provide any additional i | information or description of re | asources | supporting your | firm's |
| qualifications to | perform work for the Wes | st Virginia Abandoned Mine Lands | s Program | | IIIM S |
| | 1 | 2 | - | | |
| | | | | | |
| 20. The foregoing is | a statement of facts. | | | | |
| 1/00 | R in | | | | |
| Signature: | file | Title: Principal-in-Charg | e | Date: 07/05/20 |)22 |
| Printed Name: Chadwick B | Riller | | | | |
| TTTHEEd Hands Chadwick E | site | | | | |

| BOND FORFEITURE and RELATED PROJECT EXPERIENCE MATRIX | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------------------------------|------------------------------------|----------------------|--------------------------------------|---------------------|---|---|--------------------------|------------------------|---|--------------------------------------|-----------------|------------------------------|--------------------|------------------------|--------------------|---------------|-----|--|
| PROJECT | Exp. Basis Additional info C. Com provided in | | | | | | Primary staff participation/capacity *** M-Management P-Professional | | | | | | | | | | | | | |
| P-Personal section (s) | | Abandoned Surface Mine Reclamation | Abandoned Deep Mine Reclamation | Portal/shaft closure | Hydrologic/Hydraulic design/ Eval | Remining Evaluation | Mine / refuse fire abatement | Subsidence investigation/ mitigation | Hazardous waste disposal | Project specifications | Water quality evaluation /mitigation replacement | Construction inspection / management | Water treatment | Equipment /structure removal | Stream restoration | Geotechnical/stability | Chadwick D. Biller | R.J. Hovatter | | |
| | T | | 1 | | | | | 1 | 1 | | | | | | | 1 | | | | |
| Anglins Run Portals | С | | | | х | х | | | | | x | | | | | | | Μ | | |
| Roaring Creek | С | | х | х | | х | | | х | | х | | | | | | | Μ | | |
| Shinns Run Portals | Р | | | х | | х | | | х | | х | | | | | | | | M/P | |
| Squire's Creek Portals | С | Project Experience | х | | х | х | | | | | х | | | | х | | | Μ | | |
| Overfield (Laferty) CS&P | С | | x | | x | x | | | | | x | | | | | | x | Μ | | |
| Laurel Run | С | | х | | х | х | | | | | х | | | | | | | Μ | Р | |
| Clarksburg Lyons Landslide | С | | х | | | x | | | | | x | | | | | | x | М | | |
| Pleasant Valley | С | | х | | х | х | | | | | х | | | | | | | Μ | Р | |
| Roger Camp Hill | С | | х | | | х | | | | | х | | | | | | | Μ | Р | |
| Owl Creek Highwall | С | Project Experience | х | | х | х | | | | | х | | | | | х | | Μ | Р | |
| Landgraff Refuse | С | | х | | | х | | | | | х | | | | | | | Μ | Р | |
| Canyon Refuse & Dump | С | Project Experience | x | | x | x | | | | | x | | | | x | | | М | Р | |
| Stowe (Prince) Landslide | С | | | | | x | | | | | x | | | | | | x | М | Р | |
| Lamberts Run Site 7 | С | | х | | | х | | | | | х | х | х | х | | х | | Μ | Р | |
| Swamp Run #1 | С | Project Experience | x | | | x | | | | | x | x | х | х | | x | | М | Р | |
| Dans Branch | С | Project Experience | | | | х | | | | | x | | | | | | x | М | Р | |
| Ed Gower Highwall #2 | С | | x | | х | x | | | | | x | | | | | | | Μ | Р | |
| Martinka Mine | С | | x | | | x | | | | | x | x | х | x | | | | М | Р | |

*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.

ABANDONED MINE LANDS (AML) CONTRACTOR INFORMATION FORM

You must complete this form for your AML contracting officer to request an eligibility evaluation from the Office of Surface Mining Reclamation and Enforcement (OSMRE) to determine if you are eligible to receive an AML contract. This requirement can be found under OSMRE's regulations at 30 CFR 874.16. **NOTE:** This form must be signed and **dated within 30 days** of submission to be considered for a current bid.

Part A: General Information

| Business Name: | The Thrasher Group, Inc. |
|---------------------|-----------------------------|
| Tax ID #: | 55-0633596 |
| Address: | 600 White Oaks Blvd. |
| City, State, & Zip: | Bridgeport, WV 26330 |
| Phone Number: | 304-624-4108 |
| Email Address: | criley@thethrashergroup.com |

Part B: Obtain an Organizational Family Tree (OFT) from the Applicant Violator System (AVS)

If you plan to certify the existing AVS information or submit updates under Part C, you must include an OFT. Instructions for downloading an OFT from the AVS can be found at: <u>https://www.osmre.gov/resources/forms/OMB1029-0119instructions.pdf</u> If you require assistance you may contact the AVS Office by phone at: 800-643-9748, or by email at: <u>avshelp@osmre.gov</u>.

Part C: Certifying and updating information in the AVS

Select one of the options, follow the instructions for the selected option, sign, and date below.

I, Chad Riley (Print Name) , have express authority to certify that:

- 1. Our business is listed in the AVS. The information is accurate, complete, and up to date. (If you select this option, you must attach an Entity OFT from the AVS to this form). Do not complete Part D.
- 2. Our business is in the AVS. The information needs to be updated. (If you select this option, you must attach an Entity OFT from the AVS to this form). Complete Part D to provide the missing or corrected information.
- 3. Our business is not listed in the AVS. The information needs to be added. Complete Part D to provide the information.

Vice President Title

07/05/2022 Date



AVS OFT Report - 6/16/2022 3:21:35 PM All OFT's where the selected entity is listed as an entity or related entity Entity Selected (260544) The Thrasher Group Inc

| Parent Entity | Relationship | Description | Related Entity | % Ownership | Begin Date | End Date |
|---------------------------------|----------------|---------------------------|--------------------|-------------|------------|----------|
| (260544) The Thrasher Group Inc | Manager | Senior Project Manager | Richard G Hovatter | | 8/29/2011 | |
| (260544) The Thrasher Group Inc | Shareholder | | Kenneth P Moran | 10% | 5/27/1991 | |
| (260544) The Thrasher Group Inc | President | | Chad Riley | | 1/1/2020 | |
| (260544) The Thrasher Group Inc | Secretary | | Clay Riley | | 1/1/2020 | |
| (260544) The Thrasher Group Inc | Shareholder | | Clay Riley | 3% | 1/31/2008 | |
| (260544) The Thrasher Group Inc | Shareholder | | Chad Riley | 3% | 6/22/1997 | |
| (260544) The Thrasher Group Inc | Vice President | | Ronald Stanley | | 1/1/2020 | |
| (260544) The Thrasher Group Inc | Treasurer | | Ronald Stanley | | 2/4/2009 | |

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