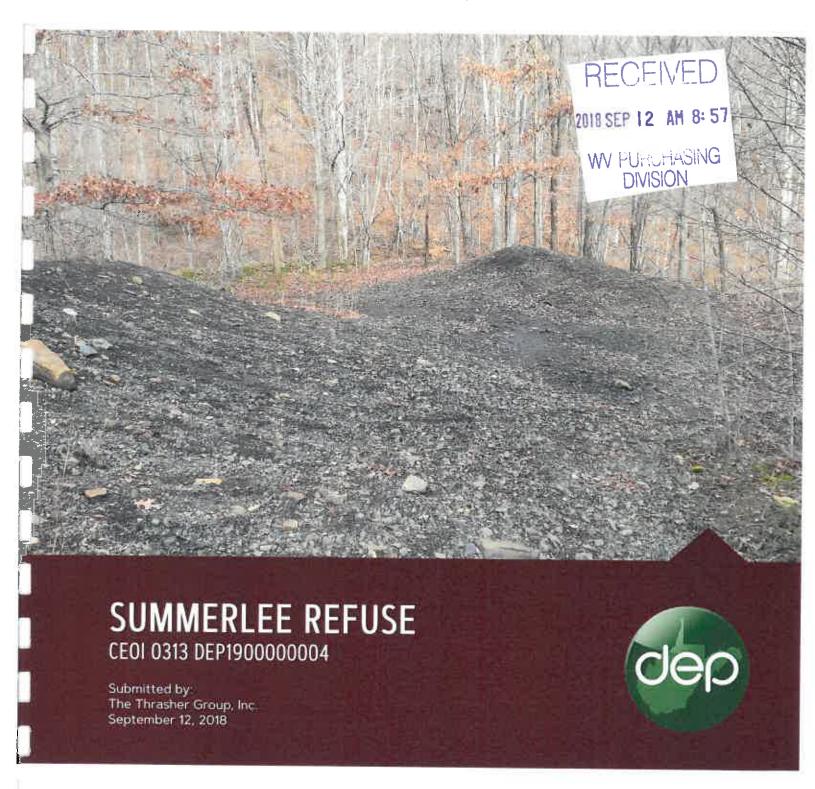
THRAISHER

ARCHITECTURE | ENGINEERING | FIELD SERVICES



THRAISHER

ENGINEERING ARCHITECTURE FIELD SERVICES

September 12, 2018

Attn: Brittany Ingraham, Senior Buyer 2019 Washington Street East Charleston, WV 25305

RE: EOI - Summerlee Refuse - DEP 190000004

Dear Ms. Ingraham and Member of the Selection Committee:

The Thrasher Group, Inc. is pleased to present our qualifications to the West Virginia Department of Environmental Protection (DEP) for the Summerlee Refuse project. As a West Virginia-based company that has been serving the state for 35 years, we take pride in projects that so clearly improve the landscape and restore the beauty of the Mountain State.

Fayette County has been one of Thrasher's most prominent locations of work over the years. We have had the privilege to perform a variety of work throughout the community. From the YoungLife camp to the Boy Scouts Welcome Center, Thrasher has worked diligently to provide resources and improve quality of life for the residents of Fayette County.

We recognize that the Summerlee Refuse project would be one more way we can support the county's needs and are eager to have an opportunity to do so. We look forward to further speaking with you about this project and answering any questions you may have.

Sincerely,

THE THRASHER GROUP, INC.

RJ Hovatter, PE Project Manager To improve the communities where we live and work by driving infrastructure development.

VISION

To be the Mid-Atlantic firm of choice for clients and employees.

CORE PRINCIPLES

Quality Safety Adaptability Integrity



35

YEARS of delivering successful projects



580

EMPLOYEES

34 Licensed Professional Engineers

20 Licensed Professional Surveyors

6 Licensed Professional Architects



9

OFFICES in six states:

West Virginia Virginia Pennsylvania Ohio Maryland Kentucky

Main Point of Contact

RJ Hovatter, PE Project Manager rhovatter@thethrashergroup.com Cell: 304-669-6848 Office: 304-205-8809



THE THRASHER GROUP





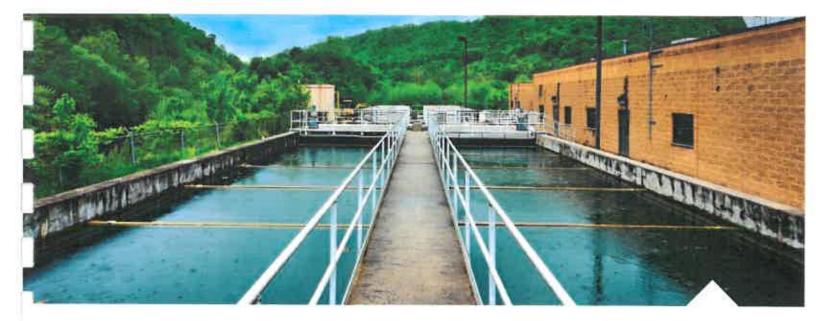
SERVICES

- > Environmental
- > Survey
- > Engineering
- > Architecture
- > Materials Testing and Inspection
- Construction Administration and Monitoring
- > Planning
- Funding Direction and Application Assistance
- Cost Estimating



CORE MARKETS

- Land Development
- Oil and Gas
- > Public/Private Utilities
- > Highways and Roads
- > Industrial
- > Commercial
- > Education (K-12, Higher Ed)



CIVIL ENGINEERING

Water Treatment & Distribution

Thrasher brings experience, practical knowledge and advanced z 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.



ENVIRONMENTAL SERVICES

ln 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.

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
- Stream Assessments, Design, and Mitigation
- > Erosion and Sediment Control Plans
- > Voluntary Remediation Program
- > Uniform Environmental
- > Covenants Act
- CERCLA Preliminary Assessment
- > CERCLA Site Investigation



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



STORMWATER SYSTEMS

Ever-increasing regulations and a renewed focus on downstream effects are pushing stormwater management issues to the forefront. Working with an experienced stormwater consultant like Thrasher gives municipalities and private clients innovative and cost-effective solutions to stormwater management issues.

Our complete system approach means that we gain a full understanding of our clients' needs and can incorporate specialized project management expertise to achieve a smooth, seamless design. Thrasher has a long and successful history of working with public utility clients and private developers to find sustainable and innovative solutions to stormwater management issues.

One of the prime objectives of soil stabilization is to improve on-site materials to create a solid and strong sub-base and base courses. Stabilized subgrades are more resistant to environmental stressors and requires less maintenance over the life cycle of your construction project.

Stormwater Management Skills:

- Municipal Separate Storm Sewer Systems
 (MS4) Consulting and Compliance
- Design of Pipeline, Channels and Culverts
- > Detention Pond Design
- > Erosion and Sediment Control Plans
- > Underground Storage/Injection Wells
- > NPDES Permitting and Compliance
- > Watershed and Flood Studies
- > HEC-RAS Stream Modeling
- Best Management Practices (BMP)
 Evaluation and Design
- Geographic Information Systems (GIS)
- Bio-Retention Systems





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



Thrasher is a statewide, full-service group with the experience and ability to work on complex-natured projects and the necessary environmental capabilities to handle the Summerlee Refuse project. To make sure your project is completed successfully, Thrasher follows the approach outlined below:

Project Inception: Thrasher not only takes the time to understand the scope of work, but takes the time to understand other issues that may arise while executing your project. We attend various meetings to provide progress updates, listen to the constituents and their concerns, and focus on ways to address them to ensure everyone is working together.

Availability: Thrasher has a unique advantage because of our strategically placed office locations throughout the state of West Virginia. Our team has the capability to respond quickly and effectively to meet client needs as they arise, including emergency situations that allow very little notice.

Addressing Each Project: Every project has unique issues and needs. We take an individualized approach to ensure those needs are being met to the fullest of our capability. As each project arises, it will be assessed and broken down into manageable phases laid out as a roadmap to success.

Coordination/Communication: Your project manager, RJ Hovatter, will serve as your main point of contact for this project. Initial support will begin with consistent communications and internal Thrasher Quality Control processes (site surveys, stakeholder reviews, comment resolution, etc.). RJ will also be in constant contact with members of the West Virginia Land Stewardship Corporation in order to maintain transparency during the process.

Reclaim Refuse Piles: Refuse piles are incorporated into the backfill of re-graded highwalls. These areas are then covered with soil and re-seeded.

Drainage Design: All of the AML projects completed by Thrasher have required design of drainage structures, like the Williams Landslide. In the past, these have included vegetated, grouted, rip-rap channels, as well as culverts and storm sewers. Drainage calculations were completed to properly size all conveyances.

Permitting: The permitting process can delay projects if they are not submitted correctly or in a timely manner. Thrasher takes pride in on 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 Corps 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, and temporary construction access and dewatering. You can be confident in knowing that any permitting necessary for your project will be handled swiftly by the Thrasher team.

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PROJECT	Exp. Basis C-Corp	Additional info							XPER										partic	ny staff ipation/o I-Manag fessiona	capacity tement
	P-Personal	Section (s) **	Forfeited Surface Mine Reclamation	Forfeited 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 /	Water treatment	Equipment /structure removal	Stream restoration	Geotechnical/stability	Chadwick D. Biller	Rebecca Y. Morris	R.J. Hovatter	Shelby Hunterer
Anglins Run Portals	С	Project Experience			x	x			Г		х	Г			<u> </u>	$\overline{}$	Т				
Roaring Creek	С		x	x		x			-		_	 	 	<u> </u>			<u> </u>	М		<u> </u>	\sqsubseteq
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Laurel Run	С		х		х	х				_	- x						-	м			\vdash
Clarksburg Lyons Landslide	С		х			х		-			x						x	M		P	
Pleasant Valley	С		х		x	х					x						\vdash	М		P	 -
Roger Camp Hill	C		х			х	\neg											M		P	
Owl Creek Highwall	С		х		х	х					x					x	-	M		P	
Landgraff Refuse	C		х	$ \Box$		х					х							M		P	
Canyon Refuse & Dump	С		х		х	х					х				х			M		P	
Stowe (Prince) Landslide	C					х					х						х	M		P	-
Lamberts Run Site 7	С	Project Experience	х			х					x	x	х	х	\neg	х х		М		P	
Swamp Run #1	С	Project Experience	х	\dashv	$\neg \uparrow$	х	\neg		-+	\neg	x	x	x	x		X		M M	-+	P	
Dans Branch	С					x	 			-+	x				-	_^	x	M		P	
Ed Gower Highwall #2	С		х		х	х			\rightarrow	\dashv	x						^	M		P	P
Martinka Mine	С	Project Experience	х		$\neg \neg$	х	_				x	х	х	x	\dashv			M		P	r

PROJECT EXPERIENCE MATRIX

^{*}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.



Squires Creek

Location: Preston County, WV

Type of Project: Refuse and Portals

Thrasher Project Manager: Chad Biller, PE

Client Contact: WVDEP Gregory Smith, PE 101 Cambridge Place | Bridgeport, WV 26330 304-842-1900

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...



Swamp Run #1

Location: Upshur County, WV
Type of Project: Passive Acid Mine Drainage
Treatment System
Thrasher Project Manager: Chad Biller, PE

Client Contact:
Buckhannon River Watershed Association
112 Fayette Street | Buckhannon, WV 26201
304-472-3317

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.

PROJECT EXPERIENCE

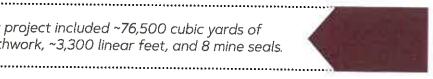


Canyon Refuse

Location: Monongalia County, WV Type of Project: Refuse and Dump Thrasher Project Manager: Chad Biller, PE Client Contact: Darren Bennett 101 Cambridge Place | Bridgeport, WV 26330 304-842-1900

The Canyon Refuse and Dump project was a site Thrasher worked on in Morgantown, WV. This project included a large scope, from mobilizing equipment to re-vegetating disturbed areas. To accomplish everything within the scope of this project, Thrasher prepared the side (including clearing and grubbing), constructed and installed support areas, and maintained access roads. Additionally, the team constructed and installed drainage control items to convey stormwater safely off-site through channels, culverts, and outlet protection. Thrasher also constructed and installed wet or modified mine seals, re-graded the refuse sites, backfilled highwalls, and ensured sediment control compliance with the approved NPDES permit.

> This project included ~76,500 cubic yards of earthwork, ~3,300 linear feet, and 8 mine seals.





WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Rebecca Y. Morris, PE QA/QC **Chad Biller, PE** Principal-in-Charge

RJ Hovatter, PE Project Manager

Shelby Hinterer Project Engineer



Survey Services

Construction Services

Environmental Services

CHAD BILLER, PE

Principal-in-Charge



Education

Bachelor of Science,

Civil Engineering

West Virginia University

Registrations

Professional Engineer

> West Virginia

- · West v
- > 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 as in the Site Division, 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 Stowe Landslide

Role: Principal-in-Charge Logan County, WV

WVDEP AML Anglins Run Project

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

WVDEP AML Squires Creek Project

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

WVDEP AML Landgraph Refuse Pile

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

WVDEP AML Owl Creek Highwall #2

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

Principal-in-Charge



REBECCA Y. MORRIS, PE

QA/QC



Education

Bachelor of Science

Civil Engineering

West Virginia University

Registrations
Professional Engineer:
> West Virginia

Rebecca Y. Morris, PE is a Senior Project Manager in Thrasher's Site Division. She has a main focus on oil and gas and primarily leads work on well pads, M&R pads, and compressor stations. She started with oil and gas as the Marcellus and Utica shale boom came to the region and has stayed in the field because of her passion for the industry – Rebecca thrives on the high-energy, high-intensity atmosphere that comes with oil and gas sites.

In the role of QA/QC, Rebecca oversees and assures the quality of all deliverables and management practices of all disciplines. This includes overseeing critical events, attending client or stockholder meetings, participating in kick-off and milestone meetings, preparing quality control plans, assuring project performance, and meeting client expectations.

Experience Morgan Run AMD Role: Project Engineer

> Preston County, WV

Lambert Run Site 5 AMDRole: Project EngineerHarrison County, WV

Middle Fork of Greens Run Phase 1 AMD

Role: Project Engineer > Preston County, WV

Sovern Run 62 and Bishoff AMD

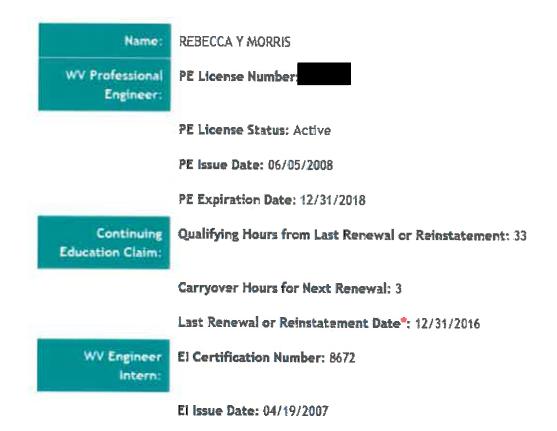
Role: Project Engineer > Preston County, WV

Allen Conner/Messenger Site on Glad Run AMD

Role: Project Engineer > Preston County, WV

REBECCA Y. MORRIS, PE

QA/QC



RJ HOVATTER, PE

Project Manager



Education

Bachelor of Science,

Civil Engineering

Fairmont State University

Registrations

Professional Engineer:

- > West Virginia
- > Pennsylvania

Certifications and Trainings

- Level ! 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 Stowe Landslide Emergency Project

Role: Project Manager

> Logan County, WV

WVDEP AML Dansbranch Landslide Emergency Project

Role: Project Manager

> Mingo County, WV

WVDEP AML Lyons Landslide Project

Role: Project Manager

> Harrison 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

WV DEP Shinns Run Portals

Role: Project Engineer

> Harrison County, WV

WestRidge Phase 1 Slip Repair

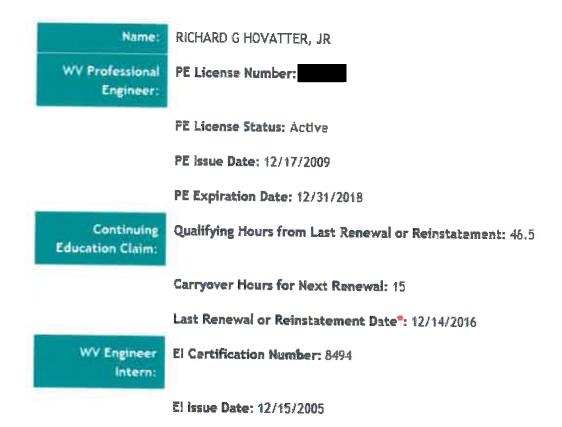
Role: Project Manager
> Monongalia County, WV

City of Clarksburg Citywide Stormwater Management Plan

Role: Project Manager
> Harrison County, WV

RJ HOVATTER, PE

Project Manager



SHELBY HINTERER

Project Engineer



Education

Bachelor of Science,

Petroleum and Natural Gas

Engineering

West Virginia University

Shelby Hinterer joined the Thrasher team as a Project Representative, but has since moved out of the field and into the office as a Staff Engineer. Shelby is a graduate of West Virginia University with a degree in petroleum and natural gas engineering. As a Staff Engineer, Shelby's day-to-day work consists of various site and utility projects doing erosion and sediment reports, CADD modeling, and design work.

Prior to coming to Thrasher, Shelby worked at Energy Surveys, Inc. where she worked as a testing technician and gained valuable knowledge of the industry. She has extensive knowledge of environmental matters and utilizes her understanding on the projects she works on at Thrasher.

Affiliations

- Society of Women Engineers
- Society of Petroleum Engineers
- Mineral Resources WVU Alumni Association

Experience WVDEP AML Ed Gower

Role: Project Engineer

> Upshur County, WV

WVDEP AML Nutter Run

Role: Project Engineer
> Harrison County, WV

WVDEP AML Ridgeway Drive Landslide

Role: Staff Engineer
> Harrison County, WV

Westridge Development

Role: Staff Engineer

> Monongalia County, WV

Valley Healthcare New Facility

Role: Staff Engineer

> Randolph County, WV

NGE CONSULTING - SUB-CONSULTANT



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.

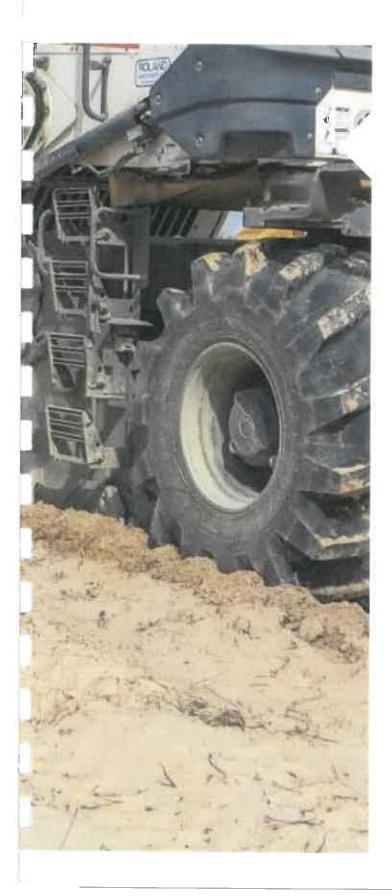
NGE has grown into a dependable and flexible environmental and geotechnical consulting firm providing a wide range of professional services, including Environmental Consulting, Geotechnical Engineering and Environmental Construction / Remediation. With clients across the nation, NGE added a second office 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."





City of Clarksburg Mr. Martin Howe, City Manager 222 W Main Street Clarksburg, WV 26301 304-624-1677

West Ridge Development Mr. Aaron Humberson PO Box 4034 Morgantown, WV 26504 304-212-3355 ext 108

Hatfield McCoy Regional Recreation Mr. Jeffrey Lusk, Executive Director PO Box 146 Logan, WV 25635 304-752-3255

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: DEP1900000004

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.

(Chec	k th	e bo	x next to each addendum rec	eive	d)	
	[1	Addendum No. 1	[]	Addendum No. 6
	[}	Addendum No. 2	[1	Addendum No. 7
	I]	Addendum No. 3	1	1	Addendum No. 8
	[1	Addendum No. 4	[3	Addendum No. 9
	[1	Addendum No. 5	ſ	1	Addendum No. 10

Addendum Numbers Received:

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 Thrashe	r Group
	Company
	Authorized Signature
September 12	2, 2018
	Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing. Revised 6/8/2012



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

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

	Proc Folder: 468533		
	Doc Description: EOI - 3	Summertee Refuse	
	Proc Type: Central Purch		
Date issued	Solicitation Closes	Solicitation No	Version
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BID CLERK			
DEPARTMENT OF ADMINISTRATION			
PURCHASING DIVISION			
2019 WASHINGTON ST E			
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Vendor Name, Address and Telephone Number	
Vendor Name, Address and Telephone Number:	
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FOR INFORMATION CONTACT THE BUYER		
Brittany E Ingraham		
(304) 558-2157		
brittany.e.ingraham@wv.gov		
	/ /	/

Signature X FEIN #
All offers subject to all terms and conditions contained in this solicitation

West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: The Thrasher	Group Address: 600 White Oaks Boulevard
	Bridgeport, WV 26330
Name of Authorized Agent: RJ Hovatter, PE	Address:
Contract Number: DEP1900000003	Contract Description: Lake (Bell) Portals
Governmental agency awarding contract: WVDEP	
☐ Check here if this is a Supplemental Disclosure	
List the Names of Interested Parties to the contract which entity for each category below (attach additional pages if	are known or reasonably anticipated by the contracting business necessary):
Subcontractors or other entities performing work □ Check here if none, otherwise list entity/individual	
2. Any person or entity who owns 25% or more of co ☐ Check here if none, otherwise list entity/individual	ontracting entity (not applicable to publicly traded entities) names below.
3. Any person or entity that facilitated, or negotiat services related to the negotiation or drafting of the Check here if none, otherwise list entity/individual in Signature.	
Notary Verification	•
	the Disclosure herein is being made under oath and under the
Taken, sworn to and subscribed before me this 11th	day of <u>September</u> , <u>2018</u> . While September and the september of the sept
To be completed by State Agency: Date Received by State Agency: Date submitted to Ethics Commission: Governmental agency submitting Disclosure:	OFFICIAL SEAL

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

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

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name:
Authorized Signature: 4 Authorized Signature: 9/11/18
State of
County of Harrison, to-wit:
Taken, subscribed, and sworn to before me this 1 Hday of September, 2018
My Commission expires April 18 , 2022.
AFFIX SEAL HERE OFFICIAL SEAL NOTARY PUBLIC State of West Virginia

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

The Thrasher Group
(Company)
A follow Prestet Manger
(Authorized Signature) (Representative Name, Title)
RJ Hovatter, PE - Project Manager
(Printed Name and Title of Authorized Representative)
September 12, 2018
(Date)
(304-624-4108) / (304-624-7831)
(Phone Number) (Fax Number)

20 7707	QUALIFICATION QUESTIONNAIRE	Attachment "B"
UMMERLEE REFUSE AML	DATE (DAY, MONTH, YEAR) SEPTEMBER 12, 2018	FEIN 55-0633596-6
THE THRASHER GROUP, INC.	2. HOME OFFICE BUSINESS ADDRESS 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 2633	3. FORMER FIRM NAME THE THRASHER GROUP, INC.
HOME OFFICE TELEPHONE 5. ESTABLI 1983 1983 PRIMARY AML DESIGN OFFICE: ADDRESS/ T	Partnership Joint	ration X (Disadvantaged Business Enterprise)
0 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 / :	·	
NAMES OF PRINCIPAL OFFICERS OR MEMBER: KENNETH MORAN, PE, PS – PRESIDENT / COO CHAD RILEY, PE – VICE PRESIDENT / CEO RONALD STANLEY, CPA – SECRETARY TREASURER / CFO	WM. RANDY WATSON - PARTNER (30 CHAD M. RILEY, P.E.— PARTNER (30 CHADWICK BILLER, P.E.— PARTNER (304 DAN FERRELL, P.E.— PARTNER (304) CRAIG BAKER, CEFP — PARTNER (30 ROBERT MILNE, P.E.— PARTNER (30 JONATHAN CARPENTER, P.EPARTI JENELLE ARMSTRONG, P.E., PMP—ROBERT RUFFNER, PS—PARTNER (30 ROBERT RUFFNER, PS—PARTNER (30 JONATHAN CARPENTER, P.EPARTI	4) 624-4108 (304) 624-4108) 624-4108 624-4108 4) 624-4108 04) 624-4108 NER (304) 343-7601 PARTNER (304)326-7601
PERSONNEL BY DISCIPLINE	CLAYTON WHITE, EI, PMP – PARTNE	ER (304-624-4108)
	TTS MECHANICAL ENGINEERS MINING ENGINEER MENTALISTS A PHOTOGRAMMETRIST PLANNERS: URBAN, TS SANITARY ENGINEER SOILS ENGINEERS	NEERS RS TRAFFIC ENGINEERS TS SGIS SPECIALIST PIPELINE INSPECTOR
	SSIONAL ENGINEERS IN PRIMARY OFFICE: 3	

Questionnaire".	CONSULTANTS ANTICIPATED TO DE USED. Attaci	"AML consultant confidencial Quarification
NAME AND ADDRESS: NOVEL GEO-ENVIRONMENTAL 650 MACCORKLE AVENUE WEST ST. ALBANS, WV 25177	SPECIALTY: GEO-TECHNICAL SERVICES	WORKED WITH BEFORE _X _ Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes
NAME AND ADDRESS:	SPECIALTY:	No WORKED WITH BEFORE Yes
NAME AND ADDRESS:	SPECIALTY:	No WORKED WITH BEFORE Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes
NAME AND ADDRESS:	SPECIALTY:	No WORKED WITH BEFORE Yes No

- 12. A. Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

 X YES Description and Number of Project: THRASHER PERFORMS ENGINEERING DESIGN SERVICES TO THE WV DEP FOR DRAINAGE,
 PORTAL SEALS, HIGHWALL AND OTHER REMEDIATION PROJECTS, AS WELL AS FOR WATER LINE AND WATER TREATMENT PLANT PROJECTS RELATED TO AML. NUMEROUS
 PROJECTS INVOLVING LAND REMEDIATION, STORM WATER DRAINAGE, SLIP REPAIR, MASS GRADING IN RELATION TO SITE DEVELOPMENT AND HIGHWAY PROJECTS ARE
 ENGINEERED BY THE FIRM ON A REGULAR BASIS.
- B. Is your firm experienced in Soil Analysis?

 X YES Description and Number of Projects: THRASHER MAINTAINS AN AASHTO CERTIFIED MATERIALS TESTING AND ANALYSIS LAB AT BOTH THE BRIDGEPORT AND BECKLEY OFFICES. SOIL ANALYSIS EXPERIENCE IS SPECIFICALLY IN GRADATIONS AND CLASSIFICATION.
- C. Is your firm experienced in hydrology and hydraulics?

 X YES 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 MUNICIPLE 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.
- D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

 YES 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 A 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 DURING THE LAST YEAR.

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

 YES 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 ABANDONED MINE LANDS. 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.
 - F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects THRASHER HAS BEEN AWARDED AND HAS SUCCESSFULLY COMPLETED NUMEROUS
RECLAMATION PROJECTS FOR WVDEP RELATED SPECIFICALLY TO ACID MINE DRAINAGE AND ABATEMENT, AS WELL AS, MULTIPLE PASSIVE TREATMENT SYSTEMS
DESIGNED FOR WATERSHED PROTECTION GROUPS. THE CHARLESTON WV BRANCH OF OUR COMPANY DESIGNED AN AWARD-WINNING WATER TREATMENT PLANT FOR MARTINKA MINES IN MARION COUNTY, WEST VIRGINIA TO TREAT MINE DRAINAGE.

13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)		MOTOTIC FOR WHIT EVOCACT DESTAI	W (Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
BILLER, CHADWICK D. – PRINCIPAL-IN-CHARGE	YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 20	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 20
Brief Explanation of Responsibilitie	żs:		
Chadwick. Biller has experience in all aspects of engi Group, Inc. in 1999 and is a partner of The Thrasher of projects, specializing in airports, highways, roads and federal building standards.	aroup. For the Inrasner Group, Chad is res ad bridges. As Project Manager for all of the	nonsible for IMV DED AMI project and pull	والمناور والمناور والمناور والمناور والمناور والمناور والمالو
EDUCATION (Degree, Year, Specializat:	ion:		
Bachelor of Science, Civil Engineering, 1992 - West V	/irginia University		
MEMBERSHIP IN PROFESSIONAL ORGANIZAT			
	IONS	REGISTRATION (Type, Year, St	tate)
Smerican Society of Civil Engineers			
		Registered Professional Engineer(PE), St	ate of West Virginia
Society of American Military Engineers		Registered Professional Engineer(PE), St Registered Professional Engineer (PE), St Registered Professional Engineer (PE), St	ate of West Virginia tate of Pennsylvania
Society of American Military Engineers National Society of Professional Engineers 13. PERSONAL HISTORY STATEMENT OF PRI	INCIPALS AND ASSOCIATES RESPON	Registered Professional Engineer (PE), St Registered Professional Engineer (PE), St	ate of West Virginia tate of Pennsylvania tate of Ohio :
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Society of American Military Engineers National Society of Professional Engineers 13. PERSONAL HISTORY STATEMENT OF PRIdata but keep to essentials) NAME & TITLE (Last, First, Middle Int.) HOVATTER, RICHARD (RJ) - PROJECT MANAGER Brief Explanation of Responsibilities As Project Manager, RJ has completed the site design the has also managed over 35 Abandoned Mine Land numerous slip remediation projects. EDUCATION (Degree, Year, Specializati	YEARS OF AML DESIGN EXPERIENCE: 12 n, grading, storm water and erosion and section and s	Registered Professional Engineer (PE), Son Registered Professional E	rate of West Virginia tate of Pennsylvania tate of Ohio (Furnish complete YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12
Society of American Military Engineers National Society of Professional Engineers 13. PERSONAL HISTORY STATEMENT OF PRIdata but keep to essentials) NAME & TITLE (Last, First, Middle Int.) HOVATTER, RICHARD (RJ) - PROJECT MANAGER Brief Explanation of Responsibilities As Project Manager, RJ has completed the site design the has also managed over 35 Abandoned Mine Land numerous slip remediation projects.	YEARS OF AML DESIGN EXPERIENCE: 12 12 13 14 15 16 16 17 18 18 18 18 19 19 19 19 19 10 10 10 10 10	Registered Professional Engineer (PE), Son Registered Professional E	rate of West Virginia tate of Pennsylvania tate of Ohio (Furnish complete YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12

13. PERSONAL HISTORY STATEMENT OF PI	RINCIPALS AND ASSOCIATES RESPO	ONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
data but keep to essentials)			(to washing a configuration
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
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MORRIS, REBECCA, Y. – QA/QC		EXPERIENCE:	YEARS OF DOMESTIC
monney neurousy 11 day de		BALBATENCE.	WATERLINE DESIGN
	1		EXPERIENCE:
Brief Explanation of Responsibilities			<u> </u>
Rebecca Morris, PE is a Senior Project Manager in T.	brachar's Cita Division. A native of Dhillini	m-1	
Morgantown firms Dieffenbauch and Hritz and Alph	masner s site Division. A native of Finnipi,	kebecca nas spent ner career in the Mount	ain State, previously working for
morgantown jams Diejjenbauen una fintz ana Alph	na Associates.		
Rebecca has a focus on oil and gas and will primaril	ly be leading work on well pads, M&R pads	, and compressor stations. She started wit	h oil and gas as the Marcellus and
oucu shale boom came to the region and has stayed	d in the field because of her passion for the	industry – Rebecca thrives on the high-en	ereu hich intencity etmechare
that comes with oil and gas sites.			ergy, ingirmitensity aunosphere
EDUCATION (Degree, Year, Specializat	tion) B.S. Civil Engineering – West Vi	rainia University. Civil Engineering	
I			
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	TIONS	REGISTRATION (Type, Year, St.	-1-1
İ		REGISTRATION (Type, Teat, St.	ace)
		Professional Engineer (PE) State of West	Virginia
13. PERSONAL HISTORY STATEMENT OF PR	RINCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	RINCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
data but keep to essentials)	RINCIPALS AND ASSOCIATES RESPO		(Furnish complete
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data but keep to essentials)		YEARS OF EXPERIENCE	YEARS OF DOMESTIC WATERLINE DESIGN
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NAME & TITLE (Last, First, Middle Int.) HINTERER, SHELBY - PROJECT ENGINEER	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC WATERLINE DESIGN
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NAME & TITLE (Last, First, Middle Int.) HINTERER, SHELBY - PROJECT ENGINEER Brief Explanation of Responsibilitie Shelby Hinterer joined the Thrasher team as a Project	YEARS OF AML DESIGN EXPERIENCE: 1 es	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
NAME & TITLE (Last, First, Middle Int.) HINTERER, SHELBY - PROJECT ENGINEER Brief Explanation of Responsibilitie Shelby Hinterer joined the Thrasher team as a Project West Virginia University with a degree in petroleum	YEARS OF AML DESIGN EXPERIENCE: 1 es ct Representative but has since moved out and natural gas engineering. As a Staff En	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
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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 AMIL 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 70 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.

THE THRASHER GROUP, INC. 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 AS-BUILTS, 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
7 3D SUB-SURFACE UTILITY LOCATORS

CIVIL 3D
CARLSON AND MICROSTATION V8 SOFTWARE
70 CAD STATIONS
10 LARGE FORMAT (SIZE E) PLOTTERS AND
5 LARGE FORMAT PLOTTER / SCANNERS.

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

THE THRASHER GROUP IS CURRENTLY THE DESIGNATED "ENGINEER OF RECORD" ON MORE THAN 200 ON-GOING PROJECTS. THESE PROJECTS RANGE FROM SIMPLE BOUNDARY

SURVEYS WHICH ARE COMPLETED WITHIN A FEW DAYS' TIME TO COMPLETE MUNICIPAL PROJECTS WHICH ARE COMPLETED OVER AN EXTENDED AMOUNT OF TIME. A PARTIAL LISTING

OF CURRENT PROJECTS FOLLOWS WHICH DEMONSTRATES THE RANGE OF SERVICES PROVIDED BY THE THRASHER GROUP.

PROJECT NAME, TYPE AND	NAME AND ADDRESS OF	NATURE OF YOUR FIRM'S	ECTIMATED CONCERNMENT	
LOCATION	OWNER	RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
			0051	
MALDEN PUBLIC SERVICE DISTRICT	MALDEN PUBLIC SERVICE DISTRICT	FEASIBILITY STUDY, DESIGN,	\$13,600,000.00	90%
WASTEWATER TREATMENT PLANT	P.O. BOX 350	FUNDING AND PERMIT		30/6
KANAWHA COUNTY, WV	TAD, WV 25201-0350	APPLICATIONS, CONTRACT		
		DOCUMENTS, FIELD SERVICES OF		
CITY OF BIDLEY MAY		SURVEY AND INSPECTION		
CITY OF RIPLEY, WV WASTEWATER TREATMENT PLANT	CITY OF RIPLEY, WV	FEASIBILITY STUDY, DESIGN,	\$13,000,000.00	80%
& SYSTEM IMPROVEMENTS	203 SOUTH CHURCH STREET	FUNDING AND PERMIT		
JACKSON COUNTY, WV	RIPLEY, WV 25271	APPLICATIONS, CONTRACT		
		DOCUMENTS, FIELD SERVICES OF		
FOUNTAIN PUBLIC SERVICE	FOUNTAIN PUBLIC SERVICE	SURVEY AND INSPECTION		
DISTRICT	DISTRICT	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT	\$10,500,000.00	60%
WATER SYSTEM PROJECT	PO BOX 146 / ROUTE 46 EAST	APPLICATIONS, CONTRACT		
MINERAL COUNTY, WV	KEYSER, WV 26726	DOCUMENTS, FIELD SERVICES OF		
	, 00	SURVEY AND INSPECTION		
PEA RIDGE WASTEWATER	PEA RIDGE PSD	FEASIBILITY STUDY, DESIGN,	\$23,000,000.00	40%
TREATMENT PLANT	500 NOVA STREET	FUNDING AND PERMIT	723,000,000.00	40%
CABELL COUNTY, WV	HUNINGTON, WV 25705	APPLICATIONS, CONTRACT		
		DOCUMENTS, FIELD SERVICES OF		
		SURVEY AND INSPECTION		
	PRESTON COUNTY SEWER PUBLIC	FEASIBILITY STUDY, DESIGN,	\$1,150,000.00	60%
T .	SERVICE DISTRICT	FUNDING AND PERMIT		
WASTEWATER TREATMENT PLANT	PO BOX 89	APPLICATIONS, CONTRACT		
AND COLLECTION SYSTEM	BRUCETON MILLS, WV 26525	DOCUMENTS, FIELD SERVICES OF		
DAY HILL CANITARY SOLER		SURVEY AND INSPECTION.		
	OAK HILL SANITARY BOARD	FEASIBILITY STUDY, DESIGN,	\$20,000,000.00	50%
	100 KELLY AVENUE	FUNDING AND PERMIT		
TREATMENT PLANT UPGRADES	OAK HILL, WV 25901	APPLICATIONS, CONTRACT		
		DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION		
BERKELEY COUNTY PUBLIC SERVICE	BERKELEY COUNTY PSSD	FEASIBILITY STUDY, DESIGN,	\$7,000,000,00	
	PO BOX 944	FUNDING AND PERMIT	\$7,000,000.00	25%
RIVERSIDE PUMP STATION	MARTINSBURG, WV 25402	APPLICATIONS, CONTRACT		
NSTALLATION	-	DOCUMENTS, FIELD SERVICES OF		
BERKELEY COUNTY, WV		SURVEY AND INSPECTION		
OTAL NUMBER OF PROJECTS	-7 SHOWN	MONAT HOMES	THE CONGRESSION OF THE ACTUAL	

TOTAL NUMBER OF PROJECTS: 7 SHOWN

TOTAL ESTIMATED CONSTRUCTION COSTS: \$88,250,000

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILIT
ACP PIPELINE – NC TO WV	SURVEY	GAI 300 SUMMERS STREET, SUITE 100 CHARLESTON, WV 25301	SUMMER, 2021	N/A	N/A
TRANSOURCE 45 MILE T-LINE	SURVEY	BURNS AND MCDONELL ENGINEERING COMPANY 119 NORFOLK AVE SW #100 ROANOKE, VA 24011	DECEMBER, 2019	N/A	N/A
PROCTOR AND GAMBLE – BERKELEY COUNTY, WV	QUALITY CONTROL SURVEY, UTILITY, E&S INSPECTION	FLUOR ENTERPRISES 100 FLUOR DANIEL DRIVE GREENVILLE, SC 29607	FALL 2019	\$500,000,000	\$1,020,000
BLUE HORIZON DRIVE – MONONGALIA COUNTY, WV	DESIGN, INSPECTION, SURVEY, TESTING	BEAR CONTRACTING PO BOX 1196 BRIDGEPORT, WV 26330	FALL 2018	\$17,000,000	\$250,000
CORRIDOR H SECTION 2 – RANDOLPH COUNTY, WV	ROADWAY DESIGN, SURVEY, TESTING	MEAD AND HUNT 400 TRACY WAY #200 CHARLESTON, WV 25311	FALL 2021	\$100,000,000	N/A

17. COMPLETED WORK WITHIN LA	ST 5 YEARS ON WHICH YOU WERE THE	DESIGNATED ENGINEER OF RECORD.			
AML RELATED PROJECTS FOR THE WVDEP AND WATERSHED PROTECTION GROUPS					
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)	
PLEASANT VALLEY AML RECLAMATION MARION COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$764,000.00	2013	YES	
ROGER CAMP HILL AML RECLAMATION TUCKER COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$210,000.00	2013	YES	
OWL CREEK HIGHWALL #2 AML RECLAMATION MONONGALIA COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$1,590,000.00	2014	NO	
LANDGRAFF REFUSE PILE AML RECLAMATION MCDOWELL COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$324,000.00	2014	NO	
CANYON REFUSE AND DUMP AML RECLAMATION MONONGALIA COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$1,004,000.00	2014	NO	
STOWE (PRINCE) LANDSLIDE EMERGENCY AML LOGAN COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$220,000.00	2015	YES	
LAMBERTON RUN SITE 7 PASSIVE AMD TREATMENT SYSTEM HARRISON COUNTY, WV	GUARDIANS OF THE WEST FORK 830 BENONI AVE. FAIRMONT, WV 2554	\$340,000.00	2015	YES	
SWAMP RUN #1 PASSIVE AMD TREATMENT SYSTEM UPSHUR COUNTY, WV	BUCKHANNON RIVER WATERSHED ASSOCIATION 112 FAYETTE STREET, BUCKHANNON, WV 26201	\$440,000.00	2015	NO	

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOU WERE ASSOCIATED WITH OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)					
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
BOONE COUNTY MINE ACCESS	WVDOH 1900 KANAWHA BLVD E CHARLESTON, WV 25311	\$1,207,900	2018	NO	BIZZACK CONSTRUCTION
OAK MOUND WALDO RUN ELECTRIC TRANSMISSION LINE	FIRST ENERGY 76 SOUTH MAIN STREET AKRON, OH 44308	\$1,294,493	2016	YES	BURNS AND MCDONNELL
SOUTHEAST RELIANCE PIPELINE	DOMINION ENERGY 900 WHITE OAKS BOULEVARD BRIDGEPORT WV 26330	\$3,800,000	2014	NO	GAI
DOMINION ENERGY WV HEADQUARTERS	DOMINION ENERGY 900 WHITE OAKS BOULEVARD BRIDGEPORT WV 26330	\$860,000	2015	YES	MARCH WESTIN COMPANY
CITY OF BECKLEY INTERMODAL GATEWAY	CITY OF BECKLEY 409 S. KANAWHA STREET BECKLEY, WV 25801	\$250,000.00	2012	YES	PARSONS BRINCKERHOFF
10. USE THIS COLOR TO DOOL 10.					

^{19.} USE THIS SPACE TO PROVIDE ANY ADDITIONAL INFORMATION OR DESCRIPTION OF RESOURCES SUPPORTING YOUR FIRM'S QUALIFICATIONS TO PERFORM WORK FOR THE WV ABANDONED MINE LANDS PROGRAM

SEE ATTACHMENT – STATEMENT OF QUALIFICATIONS

20. THE FOREGOING IS A STATEMENT OF FACTS.			
SIGNATURE: Shauff	TITLE: PROJECT MANAGER	DATE:	9/11/18
PRINTED NAME: RICHARD HOVATTER			