

Statement of Qualifications
For
Engineering Services

To The West Virginia Department of Environmental Protection

Office of Abandoned Mine Lands

REO # DEP 14514

Belington Portals and Drainage Design.

damuary 20, 2009

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WV PURCHASING DIVISION



Northgate Business Park 300 Association Drive Charleston, WV 25311 304-343-7601 304-343-7604 Fax 30 Columbia Boulevard P.O. Box 1532 Clarksburg, WV 26301 304-624-4108 304-624-7831 Fax

<u>www.thrashereng.com</u> thrasher@thrashereng.com 3000 Thayer Center Oakland, MD 21550 301-334-3866 301-334-4020 Fax



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

Request for Quotation

DEP14514

ADDRESS/CORRESPONDENCE TO ATTENTION OF

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CHUCK BOWMAN 304-558-2157

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THRASHER ENGINEERING, INC.
30 COLUMBIA BLVD.
CLARKSBURG, WV 26301

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

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P.O. Box 1532 Clarksburg, WV 26301 www.thrashereng.com Fax: 624•7831 thrasher@thrashereng.com

January 15, 2009

West Virginia Department of Environmental Protection Office of Abandoned Mine Lands and Reclamation c/o State of West Virginia Department of Administration Purchasing Division 2019 Washington Street, East Charleston, WV 25305

RE: Expression of Interest – Belington Portals and Drainage Design RFQ #DEP14514

To Whom It May Concern:

Thrasher Engineering, Inc. is pleased to have the opportunity to submit this expression of interest and qualifications to provide engineering design services for the Barbour County Belington Portals and Drainage Design Project. Our qualifications will provide the Department of Environmental Protection's Office of Abandoned Mine Lands and Reclamation with the highest level service and technical proficiency in a timely and cost efficient manner.

As demonstrated on the front cover and in our "Project Approach", we have visited and documented the Belington site. Following our review of the project, we have developed a thorough understanding of the project needs. With that understanding, we offer the following qualifications that the selection of Thrasher Engineering for this project will bring to the DEP and the Office of Abandoned Mine Lands:

Experience to Meet the Scope of Services: Through our site development department, Thrasher Engineering has provided survey, design and construction management services for site development projects on land which included mine slips. Additionally, we have mapped and designed numerous open channel drainage systems, and provided stream bank protection. As demonstrated in our qualifications, Thrasher Engineering has surveyed, mapped, designed and provided construction management services for more site projects than any other West Virginia engineering firm.

Successful Project Experience with AML: We currently are providing engineering design services for AML DEP projects in Barbour County at Anglin's Run and in Randolph County at the Roaring Creek Stream project site. Each of those projects has a scope of services similar to this Belington project. Additionally, in 2005, we were selected by the DEP to provide engineering design and mapping services for the Amherstdale and Ragland Road AML water line projects in Mingo and Logan Counties. As you are aware, each of these projects was completed on time. Thrasher Engineering also has extensive experience with water line projects in areas that are partially affected by AML; we recently provided engineering services for two partial AML projects for the Town of Masontown in Preston County.

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Project Team: The qualifications of professionals on the team we have assembled to provide design services for this project are unmatched for this type of work. We have 25 engineers on staff, 14 of who are Registered Professional Engineers. Our Environmental Manager, Sheirl Fletcher, has over 20 years of environmental experience with a major coal company, with specific experience in acid mine drainage reclamation. Thrasher Engineering offers 13 fully staffed survey crews with experience in mining survey including pre and post subsidence and acid mine drainage. Our construction management team currently employs nearly 30 construction managers and inspectors, many with experience in site development and remediation projects. Our depth of personnel will allow us to start this project immediately.

Location and Area Knowledge: For 25 years, Thrasher Engineering, Inc. has provided top quality engineering services throughout West Virginia, including numerous clients in Barbour County where our current AML projects are located. As the selected firm for this project, in conjunction with the other AML projects in Barbour County, we can bring time and cost efficiencies to the Department.

With our experience with AML and drainage projects, our qualified personnel and our expertise and experience in Barbour County, Thrasher Engineering is the right choice for this AML project.

Following the instructions outlined in the RFQ, this proposal contains information regarding Thrasher Engineering's history, qualifications and management and staffing capabilities along with the required DEP/AML Consultant's Confidential Qualifications Questionnaire and Matrix and an affidavit stating Thrasher Engineering has no debt owed to the State of West Virginia.

We thank you for your consideration of our qualifications and look forward to the opportunity to present our qualifications and project methodology to you in person.

Sincerely,

THRASHER ENGINEERING, INC.

CHADWICK D. BILLER, P.E.

Principal-In-Charge / Project Manager

STATEMENT OF QUALIFICATIONS

FIRM OVERVIEW

THRASHER ENGINEERING, INC.

Established

1983

Officers

H. Wood Thrasher, P.E., Kenneth P. Moran, P.E., P.S.

Kurt L. Newbrough, P.S.

Partners

Wm. Randy Watson

Chadwick Biller, P.E. Chad Riley, P.E.

Clay P. Riley, P.E. Daniel E. Ferrell, P.E. President

Vice-President

Secretary / Treasurer

Public Utilities

Site Development / Highways / Airports

Site Development Public Utilities

Public Utilities



Thrasher Engineering, Inc. Office – Clarksburg, WV

THRASHER ENVIRONMENTAL, INC.

Officers

H. Wood Thrasher, P.E., Kenneth P. Moran, P.E., P.S.

Jonathan Carpenter, P.E.

President Vice-President

Secretary / Treasurer

Scope of Services

Public Work - Water / Sewer / Treatment Plants /

Facility Plans

/Business and Industrial Parks Site Development – Industrial/ Business

/ Commercial / Residential

General Civil Engineering - Municipal Engineering /

Subdivisions/

Paving

Highway/ Roadways / Recreational Trails Design

Environmental Engineering

Architecture

Landscape Architecture

Land Surveying, Platting, Legal Description Preparation Construction Management / Materials Testing / Inspection

GIS Mapping and Software Development

Offices

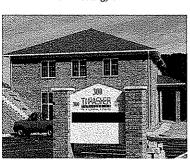
30 Columbia Boulevard, Clarksburg, WV

300 Association Drive, Charleston, WV - Thrasher Environmental

3000 Thayer Center, Oakland, MD

Main Street, Moorefield, WV - Field Office

Martinsburg, WV – The Berkeley Associates- Affiliate Princeton, WV – Pentree, Incorporated – Affiliate



Thrasher Environmental, Inc. Office
- Charleston, WV

STATEMENT OF QUALIFICATIONS

Thrasher Engineering, Inc. is a civil engineering consulting firm, specializing in public works projects. The majority of Thrasher Engineering's work involves publicly funded water treatment and distribution systems, sewage collection and treatment systems, and industrial and business parks. Over \$600 million in water, sewer, site development, survey and construction management projects have been designed and supervised by the firm

H. Wood Thrasher and Henry A. Thrasher formed the company in 1983 with a commitment to excellence and professionalism in engineering. H. Wood Thrasher, P.E. remains principal of the company; also serving as principals are Kenneth P. Moran, P.E., and Kurt L. Newbrough, P.S.

Providing a full range of professional engineering services, Thrasher Engineering, Inc. currently maintains a staff of 170 full-time employees with. Our staff includes registered professional engineers, graduate engineers, registered professional surveyors, and support staffing of surveyors, design technicians, CADD technicians, construction managers, and secretarial/clerical personnel. This professional staff has a wealth of experience and is our greatest asset. This includes not only the principals but also the technicians, surveyors, construction managers, and office support staff. Combining education with experience, the qualified staff of Thrasher Engineering strives to provide service that is second to none and is committed to maintaining a strong reputation for quality work. The company's full and diverse staff has the resources to handle many projects, both large and small, simultaneously.

SERVICES

The expertise of our company is confirmed in the variety of projects successfully completed. Areas of expertise that we believe are most beneficial to the WV Department of Environmental Protection Office of Abandoned Mine Lands and Reclamation for the DEP AML Barbour County Belington Design Project include:

Storm water Pond, Canaan Federal Prison, Scranton, PA

SITE DEVELOPMENT

Thrasher Engineering has planned, surveyed, designed and provided construction management services for over 30 site development projects for both public and private clients. Projects ranging from sites for residential housing to business and

industrial parks to multi purpose "live, work and play" communities are included in our range of site development projects.

Our objective in site development engineering is to go beyond just the engineering aspect of the project; we work as a team with our clients to understand their present and future needs. With that information, we work with them to evaluate site locations that best suit their short and long-term goals.

Our Site Development Services Include:

Planning and Conceptual Design- evaluation of potential sites; recommendation of most functional, most cost-effective alternative; layout of site reflecting best use of land available; design of off-site and on-site (underground) including water service, sanitary sewer service, storm drainage facilities, telephone, electrical service, and television cable service; obtaining all permits necessary to allow construction including State Health Department for extension of water and sewer lines, WV Division of Environmental Protection Sediment and Erosion Control Permit, WV Division of Highways entrance permit, as well as any local permits required; roadway design; layout of industrial lighting; and construction management services to assure compliance with design.

<u>Grading Plans</u> - which includes development of cut and fill quantities and construction plans (showing existing and proposed contours, structures, and facilities on site) to allow for the best use of available land.

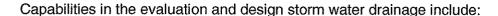
<u>Utility Layout/Mapping</u> - includes design of utility extensions to serve existing and proposed facilities, as well as the complete mapping of existing utilities.

STORM WATER DRAINAGE / SEDIMENT AND EROSION CONTROL

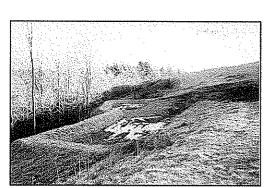
Our experience includes development of Sediment and Erosion Control measures on all types of construction sites as required by the WV Division of Environmental Protection, design of drainage facilities including piping, intake structures, etc., for site stabilization and flood control.

Our staff members have considerable hydrologic and hydraulic design experience and have successfully obtained local, state, and federal erosion and sediment control permits and National





- Hydrology Studies / Hydrographic Mapping
- Storm Water Collection Systems
- Detention Ponds
- Injection Wells
- Underground Storage
- □ Combined Sewer Overload (CSO) separation



ENVIRONMENTAL REPORTING SERVICES

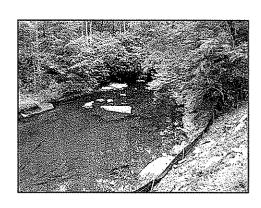
Thrasher Engineering, Inc. provides full environmental assessment and clearance services. We have more than 18 years of experience conducting environmental/natural resource compliance consultation with West Virginia Division of Environmental Protection, (WVDEP), Federal Aviation Administration and Federal Highways Administration, US Department of Agriculture-Rural Development Utility Program, and US Environmental Protection Agency (EPA).

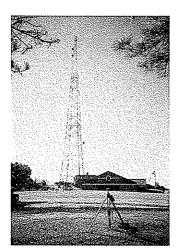
Experience includes:

- Permitting Related Activities (401 and 404)
- NEPA Environmental Document Preparation
- Wetland Delineation and Mitigation
- Rare, Threatened and Endangered Species Section 7 Informal Consultation
- Rare, Threatened and Endangered Species Section 10 Habitat Conservation Plans
- Water Use and Water Quality
- Air and Noise Impacts, Assessments, and Controls
- Soils and Geological Resources
- Cultural Resources –(Sub contracted to a reputable and approved Cultural Resource Consultant)
- Hazardous Materials
- Sediment and Erosion Control
- Consent Orders
- Compliance Schedules
- Site investigations
- □ SPCC Plans, Contingency Plans, Ground Water Protection Plans and Storm Water Pollution Prevention Plans
- Waste Treatment and Site Remediation
- Waste Disposal
- Channel Restoration
- Stream Bank Stabilization
- Enforcement Actions

SURVEY

In addition to a full service professional engineering staff, Thrasher Engineering maintains a complete surveying department which includes four licensed professional land surveyors, ten full-time survey crews, CADD technicians, and office support staff.





We perform our work utilizing the most current methods and equipment available. Our survey work is accomplished using global positioning systems (GPS) and electronic distance measuring (EDM) survey stations with data gathering capabilities.

The type of surveys provided by Thrasher Engineering varies greatly as well and covers virtually all aspects of land surveying, such as:

<u>Pre- and Post-Mining Surveys</u> - vertical and horizontal control, inspector's report of protected structures, interior and exterior photographs, and videos. Thrasher Engineering provides these survey services for numerous coal companies, including Eastern and Martinka. Additional services performed for Eastern includes construction layout for impoundments, shaft site boundary and topographic surveys, map editing, and collection of well inventory data

<u>Boundary Surveys</u> - verification of land owners, traverse and location of existing monuments, computations of closure, establishment of property corners, actual field stakeout, and preparation of plats and legal descriptions for property owners.

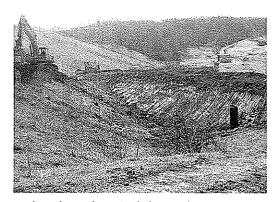
<u>Topographic Surveys</u> - location of existing features and determination of contours used in engineering layout of water distribution systems, sewer collection systems, industrial park layouts, etc.

<u>Construction Layout</u> - providing horizontal and vertical control for contractor's use and using this information to establish construction controls.

GPS Surveys - horizontal and vertical control networks

CONSTRUCTION MANAGEMENT AND INSPECTION

Thrasher Engineering knows how projects should be built. We can provide the knowledgeable and experienced personnel necessary to manage the construction phase of your project. Our project managers and inspectors are experienced in all types of construction activities. From utilities, site development and storm water management to roads, bridges and airports, we apply our construction management and inspection expertise to ensure successful projects. Our construction managers and our inspectors have years of experience; many of our inspectors are certified by the West Virginia



Department of Transportation / Division of Highways for roadwork and materials testing.

MATERIALS TESTING

Thrasher Engineering's Materials Testing Department is capable of performing a wide range of field and laboratory tests. Our laboratory at our Clarksburg, WV office is one of only three nationally certified facilities in the State of West Virginia .Additionally, our engineers and technicians who perform tests both in the field and in the lab are also certified by the State.

Services Include:

- Concrete Testing and Inspection
- □ Soil Testing and Inspection
- Aggregate Testing and Inspection
- Mortar and Grout
- Asphalt
- Paint Coatings
- □ Sprayed-on Fireproofing
- □ Subsidence Inspecting
- Caisson and Piling Inspection

GEO-TECHNICAL SERVICES

For these projects, we will utilize Novell Geo-Environmental, a Certified Minority/ Women Business Enterprise (MBE/WBE).

EQUIPMENT AND SOFTWARE

Thrasher Engineering, Incorporated provides one of the largest networks of computer aided design (CAD) equipment, software and trained personnel in the State of West Virginia.

AutoCAD Landdesktop 2008 and Microstation V8 software is utilized at 48 CAD stations within the Group. 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. This equipment allows our design department to perform accurate work quickly and efficiently. All departments have the capability to electronically transmit data to clients requesting this service. This blend of experienced personnel utilizing modern equipment results in successful projects and satisfied clients

FIRM MANAGEMENT AND STAFFING

Thrasher Engineering offers the largest engineering staff in the State of West Virginia. The expertise of the Thrasher Engineering staff is a combination of education and experience; it is reflected in all aspects of our services. The firm is led by a talented group of principals and partners who are dedicated to the success of our projects and the satisfaction of our clients.

FIRM OFFICERS AND PARTNERS

H. Wood Thrasher, P.E. - President Kenneth P. Moran, P.E. - Vice-President Kurt L. Newbrough, P.S.

Wm. Randy Watson Chadwick Biller, P.E.

Chad Riley, P.E. Clay P. Riley, P.E. Daniel E. Ferrell, P.E. Administration
Chief Engineer
Survey / Inspection /
Materials Testing
Public Utilities
Site Development / Highways
/Airports
Site Development
Public Utilities
Public Utilities

H. Wood "Woody" Thrasher, P.E. President of Thrasher Engineering, Inc. graduated from West Virginia University in 1977 with a degree in Civil Engineering. Since that time, he has utilized his engineering skills and entrepreneurial spirit to build Thrasher Engineering, Inc. into West Virginia's largest civil and consulting engineering firm Mr. Thrasher has extensive experience in all aspects of the engineering process, with emphasis on management and administration of multi-million dollar projects including funding and regulatory issues. Mr. Thrasher forms and supervises multi-project design teams and conducts client needs assessments.

Kenneth P. Moran, P.E. is Vice-President and Chief Engineer. Mr. Moran has 24 years of experience in civil engineering. He provides project management and technical review for both site development and public utilities projects. A graduate of Fairmont State University, Mr. Moran is a registered Professional Engineer (P.E.) in addition to a registered Professional Land Surveyor (P.S).

Also a partner and principal of Thrasher Engineering is **Kurt L. Newbrough, P.S**. Mr. Newbrough provides supervision of all survey activities for the firm performed by ten full-time survey teams. Mr. Newbrough is a licensed Professional Surveyor and has specialized training in OSHA Hazardous Waste Operations and Emergency Response Center in Addition to the US Department of Labor / Mine Safety and Health Administration. He also serves in the elected position as Harrison County (WV) Surveyor.

Public utilities system projects are the responsibility of **Wm. Randall Watson**. A graduate of Fairmont State University, Mr. Watson joined Thrasher Engineering in 1984 and is a firm partner. **Clay P. Riley, P.E.,** also a firm partner, is involved in both water and sanitary sewer utilities projects. He is a graduate of the West Virginia University College of Engineering. **Daniel E. Ferrell, P.E.** is a graduate of West Virginia University and received his Master of Science Degree in Civil Engineering from Old Dominion University. He also is responsible for public utilities projects.

Chadwick Biller, P.E. and Chad M. Riley P.E., round out the senior managers of the company. Mr. Riley is a graduate engineer from Fairmont State University and supervises site development projects. Mr. Biller received his engineering degree from West Virginia University. He is responsible for highways, roads, bridges and airport projects, in addition to site development.

PROJECT TEAM

Thrasher Engineering has assigned a team of experienced professionals to the Heather Run project.

Kenneth P. Moran, P.E. will serve as **Principal-In-Charge and Chief Engineer** for the project. Mr. Moran is Vice-President of Thrasher Engineering, Inc. and oversees all engineering services provided by the firm.

Chadwick D. Biller, P.E. will be the **Project Manager**. His role in this project will be to oversee all design aspects of the project and work closely with the DEP/ AML office to ensure timeliness client satisfaction and oversee budgetary aspects. Mr. Biller is a Partner in Thrasher Engineering, Inc. and manages site development and survey projects, many of which include remediation, soil and erosion control and drainage aspects.

Mike Nestor will serve as **Project Engineer** and be responsible for design of the project. Mr. Nestor's experience includes drainage and sediment control design projects for site development projects. He currently serves as design engineer for the AML Roaring Creek and Anglin projects.

Jeff Pine will be responsible for CAD design for the project. Mr. Pine provides design infrastructure projects including street and lot layout, street profiles, extension of the public sewer and water systems including utility plans and profiles, storm water drainage, storm water management, erosion and sediment control plans and NPDES permitting.

Environmental services will be managed by **Sheirl Fletcher**, Environmental Manager for Thrasher Engineering, Inc. Ms. Fletcher joined Thrasher Engineering, Inc. after serving 23 years as a geologist, hydrologist and environmental specialist with Consol Energy, Corporation. In that position, she participated in the engineering and final reclamation of five Consol Energy mines in Monongalia County.

The survey aspects of the project will be under the direction of **Kurt Newbrough**, **P.S.**Mr. Newbrough has over 20 years of experience in survey projects and significant project experience in pre and post mine subsidence surveys. These surveys have been conducted for numerous coal companies at sites throughout the state. Mr. Newbrough will assign and oversee the work of the experienced survey crew.

Geo-technical services will be under the direction of Larry Nottingham of Novel Geo-Environmental, a Certified DBE business.

Should the DEP choose to retain Thrasher Engineering, Inc. for the construction monitoring aspect of the project, Thrasher Engineering, Inc. has one of the largest construction inspection teams in the State. Nearly 30 inspectors are available to provide services for the project. **Aaron Denham** serves as supervisor of Construction Management and Materials Testing. He is a graduate of Fairmont State University and is a Level V Certified Inspector by the WV DOH.

Resumes of the project team members follow as additions to the information included in the AML Consultant's Confidential Qualifications Questionnaire.

KENNETH P. MORAN, P.E., P.S. Vice President / Chief Operating Officer/ Chief Engineer



SUMMARY OF EXPERIENCE

Mr. Moran joined Thrasher Engineering in 1991 and currently serves as Vice President and Chief Operations Officer and Chief Engineer.

Mr. Moran is responsible for management feasibility studies and design of public utility and site development projects for local state, federal and private clients. Additionally, Mr. Moran has extensive experience in all aspects of engineering and with funding and regulatory agencies in conjunction with projects.

EDUCATION

☐ B.S., Civil Engineering Technology, 1983 – Fairmont State University

CERTIFICATIONS

Registered Professional Engineer (PE), State of West Virginia #11309
Registered Professional Engineer (PE), State of Virginia#0102021855
Registered Professional Engineer (PE), State of Ohio #64412
Professional Land Surveyor (PS), State of West Virginia#1333

REPRESENTATIVE PROJECT EXPERIENCE

City of Belmont, Sanitary Sewer Project - Project Manager and Project Engineer. Mr. Moran
was involved in the Wastewater Treatment Plant Expansion and inflow filtration improvements.
Mr. Moran negotiated with the West Virginia Department of Environmental Protection for the
removal of the sludge blanket for French Creek. Improvements for the Plant included designs for
new clarifiers, sludge thickening, sludge processing and the relocation of the outfall to the Ohio
River.

- □ Brooke County PSD, Sanitary Sewer Project Principle in Charge and Chief Engineer. The project entailed planning and design, new sanitary sewer collection systems in and around Wellsburg and Follansbee. The project negotiations with the West Virginia Department of Environmental Protection and various municipalities to determine the sanitary sewer treatment provider.
- ☐ Town of Tunnelton Sanitary Sewer Project Project Manager and Project Engineer. Mr. Moran designed a sanitary sewer collection system for the Town of Tunnelton and a new 40,000 gallons per day (gpd) Wastewater Treatment Plant.
- ☐ Greater Harrison County PSD, Sanitary Sewer Project —Project Manager and Project Engineer. This project included Wastewater Collection System Extensions in the areas of Lost Creek, Good Hope and Mount Clare. We were involved in the upgrade of the existing West Milford Wastewater Treatment Facility from 300,000 gpd to 600,000 gpd. The improvements included a new pre system upgrade of the aeration system and disinfection systems.

	Huttonsville PSD, WWTP, Sanitary Sewer, Collection System, Extensions - Project Manager.
	The inflow filtration improvement project removed and replaced the gravity part collection system
	in the areas of Valley Bin, Daley and East Daly in Randolph County. The project included
	upgrading the District's existing Wastewater Treatment Facility. The improvements included head
	works facility, aeration system, filtering system improvements and disinfection system
	improvements.
	Pea Ridge PSD, WWTP, Sanitary Sewer, Collection System, Extensions – Project Manager.
	This project included extensions in the existing system, inflow infiltration collection system
	improvements, upgrades of two (2) Wastewater Treatment Facilities, and abandonment of an
P*****	existing lagoon system which was converted to a wetlands.
	Scott's Run PSD, Sanitary Sewer, Collection System Extensions - Project Manager. Mr.
	Moran was involved in the extension of a new gravity sewer collection system in the areas of
	Osage, Cassville, Wade's Run, Chaplin Hill of Monongalia County. The project removed the
	existing Wastewater Treatment Facility in the area of New Hill. The project negotiations with the
	Morgantown Utility Board for the wastewater treatment, operation and maintenance and system
_	boundary.
	Canaan Valley Public Service District Waste Water Treatment System – Project Manager.
	This project entailed analyzing the Canaan Valley area for implementation of a public sanitary
	sewer system. There were multiple tasks involved with this project from working with the
	Environmental Projection Agency and the West Virginia Department of Environmental Protection
	with regards to the TMDL on the Blackwater River. The project solution provided a managed
_	stream point discharge solution for the Valley.
	Pocahontas County PSD, WWTP, Sanitary Sewer, Collection System, Extensions – Project Manager. The project involved designing a new sanitary sewer collection and treatment system to
	serve the areas of Snowshoe, Linwood, and Slatyfork of Pocahontas County. The project involved
	multiple alternative analyses due to the varied environmental and social interest of the county.
	City of Bridgeport, Sanitary Sewer Lift Station Improvements, WWTP Upgrades - Project
	Engineer, Project Manager and Principal in Charge. Mr. Moran has managed multiple projects for
	the City of Bridgeport for over 17 years. He has designed multiple pumps station and collection
	system for the City of Bridgeport. He also designed the City's 2.5 million gpd Wastewater
	Treatment Facility and has worked with the City of Bridgeport to establish their GIS and Long
	Term Control Plan solutions.
	City of Clarksburg, WWTP Upgrades, Inflow and Sanitary Sewer System Improvements,
	Colonial Village Line Replacement – Project Engineer, Project Manager and Principal in
	Charge. Mr. Moran has managed multiple projects for the City of Clarksburg for over 17 years.
	He has designed multiple pump stations and collection system for the City. Mr. Moran also
	worked on various pump station systems and collection systems throughout the City of Clarksburg
	and as Engineer in Charge management upgrades of their existing Wastewater Treatment Facility.
	This facility was a 6 million to 8 million gpd facility. Mr. Moran worked with the City to establish
	their GIS and Long Term Control Plan solutions.
	Town of Terra Alta, Sanitary Sewer Collection Improvements and WWTP - Project Engineer
	and Project Manager. Mr. Moran designed a new collection system for the Town of Terra Alta and
	a 250,000 gpd expandable Sequencing Batch Reaction (SBR) Wastewater Treatment Facility.
	Hundred-Littleton PSD, New Sanitary Sewer Collection and Treatment System Water
	System - Project Manager, Project Engineer and Principal in Charge. Mr. Moran was
	involved in the Sanitary Sewer Collection System project in and around the Town of Hundred.
	This was a 50,000 gpd Wastewater Treatment Facility. As Principle in Charge, Mr. Moran was
	involved with multiple tank replacements and water line replacements throughout the district.
	Preston EDA, Chief Engineer for Water Extension to Prison and Project Manager. This
	project entailed the design of an eight (8) mile water distribution system to provide service to the
	Hazelton Federal Bureau of Prisons. This system included development of well fields for water
	supply and a new water treatment facility, multiple booster stations, and a 1 million gallon elevated
	storage tank.

	Preston EDA, Chief Engineer for Park Utilities at Northpointe Industrial Park – Chief Engineer. Mr. Moran designed the water, storm sewer, sanitary sewer improvements for a new Industrial Park. This Industrial Park is located in the Hazelton area in Preston County. He also designed a 50 000 and Sanitary Sawer Treatment Engilibrate server the park.
	designed a 50,000 gpd Sanitary Sewer Treatment Facility to serve the park. Food Lion, Clarksburg, Nutter Fort, Sabarton – Project Engineer and Project Manager. Mr. Moran was involved in the site development for Food Lion in the areas of Clarksburg, Nutter Fort, and Sabraton. His designs included grading, sighting of the buildings, storm water management systems, water, and sewer.
٥	US Army Reserve Center, Clarksburg and Jane Lew – Project Engineer. This project was a Design/Build. The project team consisted of Mr. Moran and members of March Westin. Designs included grading, drainage, storm water management, water and sewer.
	Mineral County High School – Project Engineer. Mr. Moran provided site drainage, design services including grading, drainage, storm water management, water and sewer.
	Calhoun County High School – Project Engineer. Mr. Moran designed the wastewater treatment facility for the package plant. He also provided site drainage, design services including grading, drainage, storm water management, water and sewer.
	Harrison County Bank – Project Engineer. Mr. Moran was involved in the design of site grading, storm water management, site drainage, design services, water and sewer.
	Peoples State Bank – Project Engineer. Mr. Moran designed the site grading, storm water management, site drainage, all design services, water and sewer.
	Big Elm Elementary School – Project Engineer. Mr. Moran was primarily involved with the Department of Highway's road widening of Route 19 and turning lanes for the entrance of the Big Elm Elementary School.
:	Robert C. Byrd High School Access Road – Project Engineer. This project included road widening and turning lanes of the intersection of Route 98 and Robert C. Byrd Drive. Mr. Moran designed the complete roadway of Robert C. Byrd Drive including pavement, alignment, drainage, relocation of all utilities and he was involved in all aspects of the project.
; o	Lincoln High School, Widening of US Route 19 and Turning Lanes - Project Engineer. Mr. Moran's involvement with this project was the widening of US Route 19 and turning lanes. Mr. Moran was involved in the design of the pavement, alignment, drainage, relocation of all utilities and was involved in every aspect of the project.
a	Hardy County EDA – Robert C. Byrd Industrial Park – Project Engineer and Project Manager. Mr. Moran worked on the design for the road widening of Route 58, new roads through the industrial park, stormwater management pond facility, water, sewer, communication, utilities, lighting, and a 20,000 gpd expandable Wastewater Treatment Facility.
۵	City of Kingwood - Project Engineer and Principal in Charge. Over the last 15 years Mr. Moran was involved in multiple water projects and sanitary sewer projects for the City of Kingwood. He also worked on various sewer pump station systems, sewer collection systems throughout the City of Kingwood sanitary sewer and water system. As Principal in Charge, he was involved with the upgrades of their existing Wastewater Treatment Facility.
0	Preston County Sewer PSD WWTP- Project Manager- Project included design of a 0.5 MGD expandable (SBR) wastewater treatment plant.
0	City of Weston. Sanitary Sewer Project, Project Engineer/Project Manager. Mr. Moran designed a new 2.5 million gallon wastewater treatment plant

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CHADWICK D. BILLER, P.E.

Partner / Project Manager



SUMMARY OF EXPERIENCE

Mr. Biller has experience in all aspects of engineering with specific emphasis on site development, highways, roads, bridges, and airports. Mr. Biller joined Thrasher Engineering in 1999 and is a partner of Thrasher Engineering. For Thrasher Engineering, Mr. Biller is responsible for WV DEP AML project 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 extensive knowledge of state and federal building standards.

EDUCATION

B.S., Civil Engineering, 1992 – West Virginia University

CERTIFICATIONS

Registered Profe	ssional Engineer	(PE), State of We	est Virginia #13620
Registered Profe	ssional Engineer	(PE), State of Pe	nnsylvania #PE056012E

☐ Registered Professional Engineer (PE), State of Ohio #64594

RE Site

☐ Grafton Hospital, Helipad Relocation

REPR	<u>RESENTATIVE PROJECT EXPERIENCE</u>
Site D	evelopment Projects
	WV DEP Anglin's Run and Roaring Creek Projects
	Taylor County Commission, Re-roofing of Courthouse and Jail
	Fairmont State University Aerospace Center
	Raleigh County Memorial Airport Industrial Park
	Putnam Business Park
	Wood Products Business Park
	Aurora Flight Sciences
	Various Subdivision in Berkeley County Ranging From 12 to 420 Lots
	Site Plan for Hi-Tech Consortium Expansion, Fairmont, WV
	Site Plans for Nippon Thermostat, Green Metals and Schwans, Putnam County
	Pendleton County Courthouse Annex
	Wingate Hotel, Charles Pointe, Bridgeport, WV
	Daycare Center and USDA Parking Lot, Hardy County
	City of Pleasant Valley, Sidewalks
	Snowshoe Mountain Resort / Intrawest – The Seneca
	Wetland Replacement Project, Putnam County
	Hurricane Business Park
	Shinnston City Park, Including Pool and Bathhouse
	City of Bridgeport, Walking Trail and Bridge
Airpor	rts
·o	Harrison Marion Regional Airport – Improvement Master Plan
	Raleigh County Airport - Business Park and Master Plan

Highv	vay/Road/Bridge Projects
ď	Old Bridgeport Hill New Storm Drainage System
	Snowshoe Drive Upgrade
	King Coal Highway
	Terra Alta Curve
	Lodgeville Road
	North Bridgeport Bypass
	Corridor H
	Upgrade of US Route 19
	East Street and US Route 50, Parkersburg
	Merrick Creek Connector
	City of Bridgeport, Valley Drive, Chenoweth Drive, Village Drive and Meadowbrook Mall
	Road
	Lodgeville Bridge
	Indian Fork Bridge
	Jakes Run Bridge
a	Littleton and Watersnake Bridges
	Verner Bridge
	Rehabilitation of the 5 th Street Bridge, Parkersburg
	Rehabilitation of the 35 th and 36 th Street Bridges, Charleston
	Kittonsville Bridge Replacement, Lewis Co.
	Water Street Bridge Replacement, Logan Co.
	Wayne County High School Bridge Replacement
	David Morgan Memorial Bridge, Marion County

MIKE NESTOR, E.I. Project Manager / Engineer



EXPERIENCE

Mr. Nestor joined Thrasher Engineering in 2005 and serves as Project Manager and Engineer. Mr. Nestor has a wide range of experience in residential and commercial site development projects, utilizing all aspects of infrastructure design including street and lot layout, street profiles, extensions of public sewer and water systems, storm water drainage, storm water management, erosion and sediment control plans, and NPDES permitting. In addition, Mr. Nestor oversees all general operations within The Berkeley Associates, directing administrative staff, CAD technicians, and staff engineers to ensure successful completion of projects covering site development, surveying, material testing, and environmental services.

EDUCATION

☐ B.S. Civil Engineering Technology – Fairmont State University, 2003

CERTIFICATIONS

☐ Engineer Intern, State of West Virginia

AFFILIATIONS

- American Society of Civil Engineers
- ☐ Eastern Panhandle Home Builders Association

REPRESENTATIVE PROJECT EXPERIENCE

WV DEP AML PORTAL AND DRAINAGE DESIGN- Design for access roads, drainage control
channels, re-grading and wet-seal of deep mine portals for Anglin's Run and Roaring Creek
sites in Barbour County.
MILLARDSVILLE VILLAGE – 26 townhouse lots on approximately 3.15 acres. Completed
sketch plat, storm water management design, and street profiles.
FAIRFAX FARM Section 2 – 15 single family residential lots on approximately 36.73 acres.
Completed development of drainage areas, grading plan, erosion and sediment control
plan, layout of lots, and Preliminary Plat design.
Prepared drawings for Public Service Districts.
LITTLE GEORGETOWN ESTATES Sections 1 and 2 – 64 single family residential lots on
approximately 127 acres. Completed lot layout, septic layout, design of sediment basin,
turning lane, erosion and sediment control, and Preliminary Plat.
WEBBER SPRINGS Section 3 – 119 single family residential lots on approximately 32.81
acres. Completed design of turning lane on WV Route 51.
BROOKSIDE ESTATES Section 1 – 60 single family residential lots on approximately 101.86
acres. Completed Sketch Plat design along with septic reserve layout and initial grading
and profiles.
CREEKSIDE MEADOWS – 95 single family residential lots on approximately 101.86 acres.
Completed lot layout, Sketch Plat design, water and sewer extensions, and design of storm
water management facilities.
MULLBERRY KNOLL – 10 townhouse lots on approximately 1.5 acres. Completed Sketch
Plat design, water and sewer extension, grading plan, erosion and sediment control plan,
and design of storm water management facilities

	SHENANDOAH OFFICE PARK – Two commercial buildings totaling 50,000 sf. Sketch Plat
	design. SPRING HILL Section 6 – 15 single family residential lots on approximately 10 acres.
	Completed design of storm water management, grading plan, and preparation of drawings for Preliminary Plat submittal.
	MAIDSTONE ON THE POTOMAC – 108 single family residential lots on approximately 40.5 acres. Completed Sketch Plat design, water and sewer extensions, grading plan, erosion
	and sediment control plan, drainage plan, design of storm water management facilities, and Preliminary Plat design.
	NATIONAL PROPANE – Bulk Propane Storage Facility and office space on approximately
	5.5 acres. Completed Sketch Plat, water and sewer extensions, grading plan, erosion and sediment control plan, drainage plan, design of storm water management facility, and
	Preliminary Plat design.
	BACK CREEK ACRES – 3 single family residential lots on approximately 6 acres.
	Completed Preliminary Plat, grading plan, and erosion and sediment control plan.
	MARTINSBURG INTERNAL MEDICINE – Completed Site Plan for city approval of 800 sf
_	office addition.
	CHESTNUT HILL ESTATES – 29 single family residential lots on approximately 66 acres.
	Completed Sketch Plat design, lot and street layout, grading plan, and profiles.
	MVB BANK ADDITION – Completed Site Plan for approval of 900 sf bank addition. SPRING HILL Section 7 – 7 single family residential lots on approximately 7 acres.
	Completed lot layout, water and sewer extensions, grading plan, erosion and sediment
	control plan, profiles, grading plan, drainage plan, storm water management, and
	Preliminary Plat design.
	WILLIAMSPORT PARK ROAD EXTENSION – 650 foot road extension in Williamsport, MD.
_	Completed design of road, including grading, drainage, storm water management, profiles, permitting, and specifications.
	INWOOD AND BAKER HEIGHTS WASTE WATER TREATMENT PLANTS - Completed Site
	Plans for county approval of facility upgrades.
	LEISURE LIVING ESTATES Section 4 – 10 single family residential lots on approximately 7
	acres. Completed Sketch Plat design, water and sewer extensions, grading plan, profiles,
	erosion and sediment control plan, drainage plan, storm water management, and
	Preliminary Plat design.
	CHUCK'S PIZZA – Completed Site Plan for 1,200 sf pizza shop on approximately 1.67 acres.
	Design included site layout, grading plan, erosion and sediment control plan, drainage and
_	storm water management.
	FEDEX SMARTPOST – Upgrades to existing FedEx SmartPost location, including the
	addition of a guard shack and extension of gravity sewer system. Proposed work was granted approval with county building permit.
	OAK HILL, WV DRAINAGE PROJECT – Design of storm sewer upgrades for the town of Oak
_	Hill. Project included the addition of a 2' x 6' box culvert under Trump Avenue, construction
	drawings, and specifications.
	TBA OFFICE SITE – Construction of two new office buildings totaling 6,200 sf on
	approximately 1.6 acres. Completed Sketch Plat, grading plan, and erosion and sediment
	control plan.

JEFF PINE CADD Operator



SUMMARY OF EXPERIENCE

Mr. Pine joined The Berkeley Associates in 2005 and serves as CADD Operator for the firm. His duties entail all aspects of infrastructure design including street and log layout, street profiles, extension of the public sewer and water systems including utility plans and profiles, storm water drainage, storm water management, erosion and sediment control plans and NPDES permitting.

EDUCATION

Certificate, Computer Aided Design - Hagerstown Community College
Diploma – Clear Spring High School

CERTIFICATIONS

☐ Certified Forklift Operator through Bragunier Masonry

REPRESENTATIVE PROJECT EXPERIENCE

	WV DEP AML PORTAL AND DRAINAGE DESIGN- Design for access roads, drainage control channels, re-grading and wet-seal of deep mine portals for Anglin's Run and Roaring Creek sites in Barbour County.
	Maidstone on the Potomac - Single family residential lots with public utilities; slope analysis
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	Oak Hill Drainage – Profiled box culvert
	Leisure Living Estates – Utility profiles
	Huyett Road Goodyear – concept plat, utility plan and profile
	The Berkeley Associates Office - Concept plan
	Mockingbird – Minor subdivision
	Eco-Lab IWTP Upgrade – Define site data
	Fed Ex Smart Post – Site plan, pricing for barriers and parking cable
	Washington Heights, Section 1 – 20 single family residential lots served by public utilities, site plan, road profile, street profile

SHEIRL FLETCHER, LPG

Environmental Manager



SUMMARY OF EXPERIENCE

Sheirl Fletcher joined Thrasher Engineering, Inc. in 2007 and serves as Environmental Manager for the firm. Prior to joining Thrasher, Sheirl served as Environmental Manager for a major coal firm. She has more than 20 years experience and brings comprehensive knowledge of environmental regulatory programs and reporting requirements in multiple states to our clients' projects, along with technical expertise in environmental engineering, geology and hydrology

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EDUC	ATION
O	West Virginia University, Morgantown, WV - Bachelor of Science- Geology
	ditional Training
	Contemporary Supervision
	Conflict Management
	Influence Management
CERT	IFICATIONS
	Licensed Professional Geologist (LPG), Commonwealth of Pennsylvania
	Certified Professional Geologist (COG), State of West Virginia
EXPE	RIENCE:
Enviro	nmental Management and Safety Compliance
	Preparations of applications for required operating permits and licenses regarding air
•••	quality, wastewater and construction projects ensuring compliance with all state and
	federal regulatory requirements.
	Responsible for compliance with all environmental regulations, including interface with
	environmental regulators, in a manner consistent with company's policies and procedures.
	Assure full compliance with OSHA (Occupational Safety and Health Administration) regulations
	Responsible for the preparation of NEPA documents including Environmental Impact Statements and Environmental Assessments.
	Developed Probable Hydrologic Impact Studies and provided technical report of findings.
	Prepare, organized, and maintained inspection reports and records, assuring on-time and accurate filings.
	Compiled and reported environmental statistics and remedial initiatives to Corporate
	Environmental Quality Control.
	Monitored projects to ensure that they were on task in reaching goals and objectives while
	staying within budgetary limits.
	Inspected construction sites, and waste water treatment and disposal facilities and
	systems for conformance with federal, state, or local regulations.
	Informed company personnel of inspection findings and explained how problems were prevented or corrected.
	Contributed to the development of company policies, goals, objectives, and procedures,
	with respect to compliance of environmental regulations.
	Oversaw activities of outside consultants providing necessary services.
	Managed staff, prepared work schedules and assigned specific duties.

Ge	ology
O	Analyzed and interpreted geological, geochemical, and geophysical information from sources such as survey data, well logs, bore holes, and aerial photos.
O	Planned and conducted geological field studies and surveys by: development of drilling
0	pad sites, soils and subsurface drilling to collect data for interpretation Prepared geological maps, cross-sectional diagrams, charts, and reports concerning mineral extraction, land use, and resource management, using results of field work and laboratory research.
Ну	drology
	Studied and documented quantities, distribution, disposition, and development of underground and surface waters.
	Designed and conducted scientific hydro-geologic investigations to ensure that accurate and appropriate information was available for use in water resource management decisions.
	Coordinated and supervised the work of professional and technical staff, including consultants, engineers, technologists, and technicians.
	Drafted final reports describing research results, including illustrations, appendices, maps, and other attachments.
	Studied wastewater and storm water issues, including flood and drought risks, water quality, wastewater, and impacts on wetland habitats.
0	Assessed ground and surface water movement to provide advice regarding issues such as waste management, route and site selection, and the restoration of contaminated sites.
	Applied research findings to help minimize the environmental impacts of pollution, water-borne diseases, erosion, and sedimentation.
a	Investigated complaints or conflicts related to the alteration of public waters, gathering information, recommending alternatives, informing participants of progress, and preparing draft orders.
	Determined sampling locations and methods, and collected water or wastewater samples for analysis, preserving samples with appropriate containers and preservation methods.

Larry C. Nottingham, PhD, PE

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



Fields of Competence

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

Education

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

Registration/Certifications

Registered Professional Engineer in West Virginia, Kentucky, and Ohio

Employment History

• May 2005 - Present

Senior Engineer, Novel Geo-Environmental, PLLC

• 1979 - May, 2005

Principal Engineer, Triad Engineering, Inc.

• 1989 - 1994

Professor and Department of Civil Engineering

Chair, West Virginia Institute of Technology

1975 - 1979

Senior Engineer, Fugro Gulf, Inc., Houston, Texas

• 1970 - 1974

Project Engineer, Florida Department of

Transportation

• 1967 - 1970

Project Engineer - Ackenheil & Associates. Inc.

Kurt Newbrough, P.S. Partner / Field Services Supervisor



Mr. Newbrough serves as Secretary of Thrasher Engineering in addition to being a Partner of Resource Engineering Group and is Survey Supervisor for the firm. Mr. Newbrough has extensive knowledge in all aspects of surveys and is responsible for the assignment and review of all survey activities of his seven fully staffed survey teams. He is experienced in various types of surveys including, but not limited to boundary, topographical, construction layout and GPS for both public and private clientele. Survey projects are performed for each of the Resource Engineering Group companies' public and private clientele, as well as on an independent contract basis.

Mr. Newbrough is a Registered Professional Surveyor and holds the elected position of County Surveyor for Harrison County, West Virginia.

EDUCATION

Surveying

John Tyler Community College, Chester, Virginia United Career Center, Clarksburg, West Virginia

REGISTRATIONS

Professional Land Surveyor, State of West Virginia Certification, OSHA Hazardous Waste Operations and Emergency Response Center Certification, U.S. Department of Labor/Mine Safety and Health Administration

AFFILIATIONS

West Virginia Association of Land Surveyors American Congress on Surveying and Mapping

☐ William A. Bruce, AIA; Food Lion Stores

	PRESENTATIVE PROJECTS		oundary Surveys
C	onstruction Layout		WV National Cemetery
	Fairmont State University; Various Projects		Fairmont State University; Various Projects
	Associated with the 10-Year		Associated with the 10-Year Infrastructure
	Infrastructure Improvement Master Plan		Improvement Master Plan
	City of Bridgeport; Charles Pointe		Town of Moorefield; North and South Levee
	Development		Areas
	Harman Construction, Incorporated		US Army Corps of Engineers
	Calvert Excavating and Paving, Incorporated		Flood Control
	Howard Concrete		USARC Sites
	Dodd Corporation		US Department of Justice; FBI Fingerprint
	Mid-Atlantic Storage System, Incorporated		Identification Complex
			Hardy County Rural Development Authority
То	pographical Surveys	٥.	20.0
	West Virginia Department of	G	PS Surveys
	Transportation/Division of Highways		US Army Corps of Engineers, Baltimore
	Harrison County Board of Education		District
	· ·		
	High School		IDG, Incorporated

AARON DENHAM

Construction Management and Materials Testing



SUMMARY OF EXPERIENCE

Engineering Specialization

Mr. Denham joined Thrasher Engineering in 2000 and serves as Field Supervisor for the firm. Mr. Denham is responsible for construction management, inspection and materials testing for highway, airport, site development, structural and public utilities projects.

☐ Fairmont State University Level V Certification – Transportation Engineering Technologist –

EDUCATION

☐ B.S. Civil Engineering Technology, 1999 – Fairmont State University

CERTIFICATIONS

Fetterman Bridge

	WVDOH Compaction Inspector
	WVDOH Concrete Inspector/Technician
	WVDOH Aggregate Sampling Inspector
	WVDOH Aggregate Technician/Inspector
	WVDOH Bituminous Inspector/Technician
	WVDOH Radiation Safety
	Troxler Basic Safety – Nuclear Compaction Gauge
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REPR	RESENTATIVE PROJECT EXPERIENCE
	Army Corp of Engineers, Tygart Dam
	Jackson County Airport
	Benedum Airport Authority 2001 Master Plan
	Benedum Airport Authority 2002 Master Plan
	Benedum Airport Authority 2003 Master Plan
	Benedum Airport Authority, 2004 Master Plan
	Ruby Memorial Hospital NE Addition
	Health Science Learning Center
	WV National Cemetery Expansion
	Fairmont State University
	Institute for Scientific Research
	I-68 Welcome Center
	Stockmeier Urethanes
	Fairmont State University Squibb Wilson Boulevard Demolition and Parking Lots; Lead
	Inspector & Testing
	Fairmont State University Renovation; Testing
	City of Pleasant Valley Sidewalk Project; Lead Inspector & Testing
	WVDOH South High Street Bridge
	Wheeling Route 2 Bypass
	Lake Floyd Dam
	Baker Dam Site 10
	City of Bridgeport 279 By-Pass
	Mon-Fayette Expressway
	WVDOH Meadowbrook Road

JEFF PINE CADD Operator



SUMMARY OF EXPERIENCE

site plan, road profile, street profile

Mr. Pine joined Thrasher Engineering in 2005 and serves as CADD Operator for the firm. His duties entail all aspects of infrastructure design including street and log layout, street profiles, extension of the public sewer and water systems including utility plans and profiles, storm water drainage, storm water management, erosion and sediment control plans and NPDES permitting.

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0	Certificate, Computer Aided Design – Hagerstown Community College Diploma – Clear Spring High School
CEF	RTIFICATIONS
0	Certified Forklift Operator through Bragunier Masonry
REF	PRESENTATIVE PROJECT EXPERIENCE
	WV DEP AML PORTAL AND DRAINAGE DESIGN- Design for access roads, drainage control channels, re-grading and wet-seal of deep mine portals for Anglin's Run and Roaring Creek sites in Barbour County.
	Mockingbird Mobile Home Park – 25 lots with public utilities, draft lot layout and concept plan for proposal
0	Maidstone on the Potomac – Single family residential lots with public utilities; slope analysis Brookside Estates – 60 Single family residential lots on 125 Acres with individual wells and septic area, created profiles and lot layout, road profiles, street layout, road widening and well locations
	Oak Hill Drainage – Profiled box culvert
	Leisure Living Estates – Utility profiles
	Huyett Road Goodyear – concept plat, utility plan and profile
	The Berkeley Associates Office - Concept plan
	Mockingbird – Minor subdivision
	Eco-Lab IWTP Upgrade – Define site data Fod Ev Smort Post – Site plan, pricing for barriage and parking cable
	Fed Ex Smart Post – Site plan, pricing for barriers and parking cable
	Washington Heights, Section 1 – 20 single family residential lots served by public utilities,

REPRESENTATIVE EXPERIENCE

Thrasher Engineering offers significant experience in open drainage and sediment and erosion projects in addition to abandoned mine lands projects, covering a broad range of expertise. In the following section are examples of our experience in each of these areas related to the Barbour County Belington project

ABANDONED MINE LAND PROJECTS

WV DEP ABANDONED MINE LANDS - ANGLIN'S RUN #1 AND ROARING CREEK STREAM RESTORATION PROJECTS

Client:

WV DEP

Office of Abandoned Mine Lands and Reclamation

304-926-0485

Anglin's Run #1 Barbour County

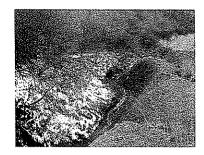
This area includes a total of eight (8) collapsed mine portals with at least 5 of them having discharges ranging from 1 to 10 gpm. Total flows were estimated to be between 25 and 30 gpm. Thrasher Engineering's preferred scope and preliminary plans for this project include construction of an access road into the site, excavation and wet seal of at least eight (8) deep mine portals and the re-grade and fill of subsidence sinkholes. To carry water safely off site, drainage control channels, conveyance pipe and under drain will be constructed. All areas disturbed by construction will be soil covered, conditioned and re-vegetated.

Roaring Creek Stream Barbour County

This project involves the elimination of subsidence depressions, the closure of open portals and the treatment of AMD. The Roaring Creek Watershed was heavily deep mined and surfaced mined prior to 1977. The project area consists of 3 open and 3 closed portals discharging AMD, AMD seeps along the unnamed tributary and an area of subsidence, which drains surface water into the mine workings. AMD flow from the deep mine portals ranges from 10 gpm to 100 gpm with PH ranging from 3.1 to 5.0. The seeps along the UNT showed an average PH of 3.3. Construct and rehabilitate access roads to the sites. Install wet seals at the portal locations (4 Portals total). Thrasher Engineering's preliminary plans include re-grading the subsidence area to prevent surface water from entering the mine workings, and installing an emergency spillway on the existing pond which will be designed to handle the additional flow.







WV DEP ABANDONED MINE LANDS – AMHERSTDALE (LOGAN COUNTY) PRE-SETTLING BASIN AND PRE-TREATMENT FACILITY PROJECT

Client:

WV DEP

Office of Abandoned Mine Lands and Reclamation

304-926-0485

Project Description: The AML affected area is located in Logan County on CR 16, west of the city limits of Man, a distance of approximately 12.6 Miles.

The scope of the project is the design and construction of a pre-settling basin and pre-treatment system to remove metals and turbidity from the existing water sources, allowing the water existing treatment facility to utilize the surface and groundwater.

The scope of services Thrasher Engineering provided for this project included:

Survey, supervision of subsurface investigation, environmental review, preparation of design, drawings, development of construction documents. .

WV DEP ABANDONED MINE LANDS – RAGLAND (MINGO COUNTY) WATER LINE EXTENSION PROJECT

Client:

WV DEP

Office of Abandoned Mine Lands and Reclamation

304-926-0485

Project Description: The AML affected area is located in the Midwestern portion of Mingo County. The area is approximately 2.6 square miles The scope of services Thrasher Engineering provided for this project included: survey, supervision of subsurface investigation, environmental review, design, development of construction documents. Upon construction, Thrasher will provide construction management services.

ACID MINE DRAINAGE / COAL COMPANY EXPERIENCE

Martinka Water Treatment Plant

Client: Martinka Coal

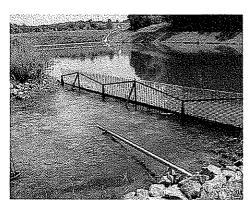
Mr. Gary Timms

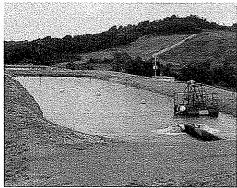
Water Treatment Plant Supervisor

Fairmont, WV 304-366-5516

Project Cost: \$6.5 Million

This project consisted of the design of a 17.3 MGD Water Treatment Plan to blend mine borehole water with acid mine drainage; the plan removes iron (1000 mg/l (ferric hydroxide) to less than 1 mg/l.





The plant design included:

- □ Aeration Blending and Stripping Carbon Dioxide
- □ Feed Hydrogen Peroxide Shifts chemical equilibrium for utilization of naturally calcium carbonate for neutralization
- □ Coagulation/Flocculation Three (3) stage tapered flocculation with axial flow propeller mixers and variable frequency drives
- □ Sedimentation Six (6) settling ponds with **ferric hydroxide** sludge removal and underground injection wells
- □ Polishing Pond Sodium hexamataphosphate for calcium stabilization.

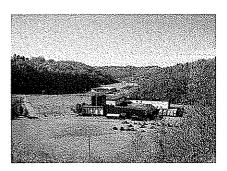
Dayton Carpenter, P.E., DEE, Project Engineer was rewarded the following for the project:

- □ 2002 WV ACEC Gold Award Engineering Excellence
- 2002 WV Manufacturer's Association Environmental Leadership Award for Innovative Technology

<u>SITE DEVELOPMENT PROJECTS – SEDIMENT AND EROSION MEASURES</u>

Harrison County Business and Technology Park
Robert C. Byrd Industrial Park – Hardy County
White Oaks Business Park – Harrison County

Thrasher Engineering provided survey, site planning, and engineering design services for each of these business/industrial parks which were developed on abandoned mine lands. The design of each project included plans for landslide / erosion and sediment control within grading plans.







Mingo County Wood Products Industrial Park, Mingo County, West Virginia

Client:

Mingo County Redevelopment Authority

Mike Whitt, Executive Director

304-235-0042

Project Description: This project consisted of the development of conceptual layout and final design drawings for the park. The work consisted of drainage, sediment, erosion measures, and on-site utilities including water and sanitary sewer, along with the design and permitting of a 12,000 gpd wastewater treatment plant. Also included in this project was a roadway design conforming to WV Department



of Highways specifications and criteria. Construction management services were also provided.

Indian Ridge Industrial Park / McDowell County Prison

Client:

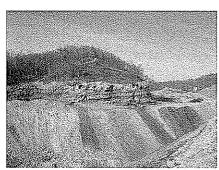
Federal Bureau of Prisons

202-514-6461

McDowell County Commission

304-436-8548

Project Description: The objective of this project was to push back an existing highwall and enlarge the flat area on the McDowell County's Indian Ridge Industrial Park, a



portion of which is being used to accommodate a Federal Prison. Thrasher Engineering is now providing the site development engineering services for that facility. This project consisted of the design, bidding, and construction management for the preparation of an industrial park/federal prison site. The construction involved moving 20,000,000 CY of earth to create approximately 250 relatively flat acres for development. Inclusive in our scope of work was site grading, sediment and erosion control, stream relocations, and wetland mitigation. This work involved laying back an existing highwall and placing the excavated material into a nearby valley to increase the developable acreage of the site. The valley fill serves as a buffer and will be used for non-structural uses.

Belington Industrial Park

Client:

Barbour County

Office for Economic Development

304-456-1225

This project consisted of the development and conceptual layout and final design drawings for the park. The work consisted of on-site utilities including water and sanitary sewer.

Specifically, this project included:



- ☐ 8,000 LF of water line,
- ☐ 2,700 LF of gravity sewer line,
- Manholes and Fire hydrants.

Additionally, this project included an access road conforming to WV DOT/Department of Highways specifications and criteria, earthwork for building site preparation and storm water detention. Construction management services were also provided.

West Virginia National Cemetery

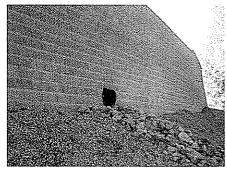
Client:

U.S. Department of Veterans Affairs Peter Fernandez, National Cemetery

Administration

Carter VanDyke Associates

215-345-5053



Project Description: The project consisted of the planning, design and bidding for the expansion of the WV National Cemetery. The scope of the work included site utilities, storm sewers, roads, sidewalks, retaining walls, pre-cast concrete crypt burial areas, site grading and sediment and erosion control. Construction management and survey services were also provided.

Fairmont State University

Client:

Fairmont State University Dr. Dan Bradley, P.E. President

304-367-4000



Thrasher Engineering is providing civil engineering services throughout the Fairmont State University campus within



the scope of FSU's 10-year \$10 million master plan for infrastructure improvements. This portion of the project included storm water management during and after construction. During the construction phase erosion and sediment control was contained by installing silt fence, water barriers, temporary sediment traps, inlet protection, diversion ditches and utility matting. The final site improvements contain swales, ditches, vegetation, landscaping and culverts to control the storm water and limit the pollution from the site. Ditches are protected from erosion and all unpaved areas are stabilized with vegetation.

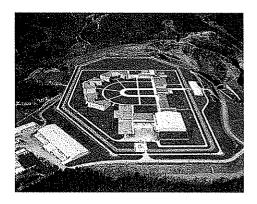
Glenville Correctional Institution, Gilmer County, West Virginia

Client:

Federal Bureau of Prisons

202-514-6461

Project Description: This project consisted of the design/build of a U.S. Correctional Facility. Inclusive in our scope of work were the site utilities (sewer, water, stormwater management gas) site grading, sediment & erosion control, layout of facilities, on site roads and parking, various site elements and oversight during the construction phase.



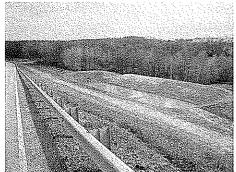
Canaan Federal Prison, Scranton, Pennsylvania

Client:

Federal Bureau of Prisons

202-514-6461.

Project Description: Thrasher Engineering served as a Team Member on this design-build project of US Penitentiary and Federal Prison Camp. The scope of services included sewer, water, storm water management and gas utilities, site grading, sediment and erosion control, relocation of a township road, layout of the facility and oversight during construction. The drainage of this project re



oversight during construction. The drainage of this project required the design of a storm water detention pond.

West Virginia Division of Highways, Harrison County, West Virginia

Client:

West Virginia Division of Highways

304-558-2830

Total Project Cost: \$1,200,000

Project Description: This project consisted of developing construction drawings and right-of-way documents for a new storm drain system along Old Bridgeport Hill. The existing storm drain system was 25 to 30 feet deep and was collapsing in several areas; therefore, a new system of inlets and pipes were designed to collect surface water.

EXPERIENCE OF SHEIRL FLETCHER, ENVIRONMENTAL MANAGER

Consol Coal Company: Abandoned Mine Lands Remediation / Mine Reclamation

The projects included engineering and final reclamation of the following Consol Energy mines in Monongalia County, West Virginia: Blacksville No. 1, Pursglove Mine, Arkwright Mine, Osage Mine and Humphrey Mine.

Final reclamation included AMD and site remediation of the following types of surface support facilities:

- Refuse / slurry impoundments
- AMD treatment plants including impoundments and sludge lagoons
- Preparation plants and coal stockpile areas
- Shaft and drift openings
- Boreholes.

Consol Coal Company - Hydrology and Hydraulics

During the final abandonment of the Morgantown operations of Consolidation Coal Company, performed geologic hydrologic study of the Arkwright, Osage, Pursglove and Humphrey Mine pools and their inter-relationship to one another and to adjacent mining operations.

MINING RELATED SURVEY PROJECT EXPERIENCE

Eastern Associated Coal Corporation

Client:

Eastern Associated Coal Corporation Allen Moore, Project Manager 304-449-1911

Project Description: This ongoing project consists of performing pre and post-mining subsidence surveys on structures and dwellings located within and surrounding the permit boundaries of the Federal No. 2 Mine.

A typical project of this nature consists of establishing horizontal and vertical control, preservation of control points, elevations on critical structure points, baseline establishment and profile, collection of water samples for springs and wells, inspectors report of protected structures, interior and exterior digital photography, and digital CADD mapping of the field survey.

Eastern Associated Coal Corporation

Client:

Eastern Associated Coal Corporation Allen Moore, Project Manager 304-449-1911

Project Description: Past and ongoing projects have been preformed at the Federal No. 2 Mine which include:

- · Water line surveys and design for replacement of existing water sources
- Structure identification surveys, water well inventories, and stream monitoring surveys
- Ground control for aerial mapping
- Gas well locations for down-hole surveys
- Subsidence stream locations and profiles
- Permit boundary staking
- Construction layout for refuse impoundments
- · Scott's Run Railroad Bypass project design survey, design, and construction layout
- Boundary surveys for fee purchase property acquisitions
- · Construction layout for new shaft sites
- · Powerline profiles and construction layout
- Topographic design surveys and soundings for impoundment ponds
- · Drainage control surveys and design for surface water runoff

Martinka Coal Company

Client:

Martinka Coal Company Gary Timms, Project Manager 304-366-5516

Project Description: This project consisted of the collection of data to be used in conjunction with the design of an acid mine drainage facility, designed by Thrasher Engineering, Located at the Tygart River Mine.

Critical land survey components consisted of the following:

- Topographic surveys and digital mapping of approximately 50 acres
- Dewatering borehole layout
- Downstream cross-section surveys for volume computations
- · Protected structures identification and mapping
- Pre-blasting surveys on nearly 200 structures
- Construction layout of the entire facility

Martinka Coal Company - Fairmont, WV

Client:

Martinka Coal Company Gary Timms, Project Manager 304-366-5516

Project Description: Past and ongoing projects have been performed at the Tygart River Mine including:

- Dewatering borehole computations and layout
- Stockpile surveys
- Certification of drainage system, ponds 5, 6, and 7 Permit No. 1001-87
- Topographic survey and construction layout of the existing Guyses Run AMD Facility
- Boundary surveys for fee purchase property acquisitions
- Subsidence stream locations and profiles
- Construction layout for refuse impoundment
- · Ground control for aerial mapping
- Scanned mapping digital overlays
- · Conceptual site plan for recreational facilities

PROJECT APPROACH

In order to develop a full understanding of the WV DEP's needs for this project,

Thrasher Engineering, Inc.'s representatives visited the Belington site as demonstrated in these photos. Utilizing the topographic map provided by the DEP, we examined each of the areas outlined.

Based upon our findings, we have developed the following project approach and mapping to demonstrate our technical abilities and straight forward method of design and construction.

This project approach is a general approach that will be used on any WVDEP reclamation project and may need to be modified depending on the existing information that is available for the specific project. Also, some steps may not be needed on every project.

Step #1 Obtain adequate mapping. The limits of construction will be flown and digitally mapped or, if the area is small enough, survey crews will field survey the area. Thrasher will then provide 1"=50' scale mapping with 2' contours. Spot elevations and critical cross sections may be completed in the field if necessary to make tie-ins.

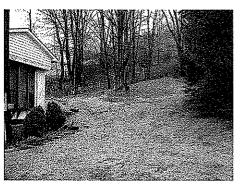
Step #2 Design the project. Thrasher will work closely with the WVDEP in designing the project. Field reviews will be conducted to determine the most cost effective method to be used to reclaim the area. A preliminary design based on the field reviews will be submitted to the WVDEP. After receiving comments or corrections, Thrasher will submit the final plans, specifications and design report. The design report will consist of the bore logs, piezometer elevations, quantity calculations, right of entry forms and any other assumptions that were made during the design.

Step #3 Prepare for construction. Thrasher will also set up reference points, benchmarks and control points outside of the construction limits so the contractor will be able to construct the project in the future. Thrasher will complete

any permits, right of ways, and easements that are necessary to construct the project. The project manager and engineer will attend the pre-bid meetings to answer any questions that contractors may have about the design.

Step # 4 Construct the project. The project manager will be available during construction to answer any questions the contractor or inspector may have. Thrasher inspectors that are certified by the State of WV are available to be used if the WVDEP requests this service.







WES	WEST VIRGINIA ML CONSULTANT	NIA DEPARTMENT	, Q	ENVIRONMENTAL PROTECTION QUALIFICATION QUESTIONNAL	PROTECTION QUESTIONAIRE	E Attachadn	"B"
PROJECT NAME BELINGTON PORTALS AND DRAINAGE DESIGN DEP 14514		DATE (DAY, MONTH, JANUARY 20, 2009	H, YEAR) 19		FEIN 55-0633596-6		
1. FIRM NAME THRASHER ENGINEERING, INC.		2. HOME OFFICE BUSI 30 COLUMBIA BLVD., 26301	BUSINESS D., CLARI	NESS ADDRESS CLARKSBURG, WV	3. FORMER FIRM NOT APPLICABLE	FIRM NAME ABLE	
4. HOME OFFICE TELEPHONE 304-624-4108	5. ESTABLISHED 1983	SHED (YEAR	6. TYPE OWNE Individual Partnershi	RSHI	Corporation X (D	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) NO X	
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ 30 COLUMBIA BLVD, CLARKSBURG, WV / 300 ASSOCIATION DRIVE, CHARLESTON,		TELEPHONE/ PERSON 304-624-4108 / KE WV / 304-343-7601	1 2		AML DESIGN PERSONNEL EACH P.E., VICE PRESIDENT / 12 PENTER, MANAGING PARTNER /	L EACH OFFICE I / 12 INER / 2	
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS H. Wood Thrasher, P.E President Kenneth P. Moran, P.E Vice President Kurt Newbrough, P.S Secretary	FICERS OR MEMBER - President - Vice President Secretary	S OF FIRM	8a. NAME, WM. RANDY CHAD BILLE CHAD M. RI CLAY P. RI	E, TITLE DY WATSC LLER, P. RILEY, F RILEY, E	MBI - 1 - 1 - 1 - 2 - 4 - 4	SR - OTHER PRINCIPALS PARTNER PARTNER PARTNER PARTNER	
9. PERSONNEL BY DISCIPLINE		***************************************		***************************************	do do Junio marente en		
24 ADMINISTRATIVE 3 ARCHITECTS — BIOLOGIST 18 CADD OPERATORS 27 CIVIL ENGINEERS 41 CONSTRUCTION INSPECTORS 2 DESIGNERS — DRAFTSMEN	- ECOLOGISTS - ECONOMISTS - ELECTRICAL E 2 ENVIRONMENTA - ESTIMATORS 1 GROLOGISTS - HYDROLOGISTS - HYDROLOGISTS	ECOLOGISTS ECONOMISTS ELECTRICAL ENGINEERS ENVIRONMENTALISTS ESTIMATORS GEOLOGISTS HISTORIANS HYDROLOGISTS	11/6/1/2	LANDSCAPE ARCHITECTS MECHANICAL ENGINEERS MINING ENGINEERS PHOTOGRAMMETRISTS PLANNERS: URBAN/REGIONAL SANITARY ENGINEERS SOILS ENGINEERS SPECIFICATION WRITERS	TECTS 38 8 18 18 18 19 C 10 C 18 18 18 18 19 C 18 18 18 18 18 18 18 18 18 18 18 18 18	STRUCTURAL ENGINEERS SURVEYORS TRAFFIC ENGINEERS OTHER 1 TOTAL PERSONNEL	
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: *RPEs other than Civil and Mining must provide supporting documentation supervise and perform this type of work.	ISTERED PROF and Mining m this type of	IISTERED PROFESSIONAL ENGINE and Mining must provide supthis type of work.	ineers in Pi supporting	RIMARY OFFICE: documentation tl	12 that qualifies	them to	
10. HAS THIS JOINT-VENTURE WOR!	WORKED TOGETHER	BEFORE?	O YES	O NO NOT APPI	APPLICABLE		

11. OUT; F KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED Quee onnaire".	TO. USED. Attach	"AML Consultant Confidential Qual cation
NAME AND ADDRESS: NOVEL GEO-ENVIRONMENTAL	SPECIALIY: GEO-TECHNICAL SERVICES	MIT
		X Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
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		Yes
		NoN
3		

- NUMEROUS DESIGN TEAM ENVIRONMENTAL MANAGER HAS 23 YEARS OF EXPERIENCE AS GEOLOGIST, HYDROLOGIST AND ENVIRONMENTAL SPECIALIST THE THRASHER ENGINEERING SURVEY DEPARTMENT HAS PERFORMED WITH CONSOL ENERGY. PROJECTS INCLUDED THE ENGINEERING AND FINAL RECLAMATION OF THE BLACKSVILLE NO.1D, PURSGLOVE, DEVELOPMENT, WATER LINE AND SANITARY SEWER PROJECTS RELATED TO ABANDONED MINE LANDS HAVE ALSO BEEN ENGINEERED. ENGINEERING HAS PERFORMED ENGINEERING DESIGN SA DEP FOR BOTH DRAINAGE AND PORTAL AML PROJECTS AS WELL AS FOR WATER LINE PROJECTS RELATED TO AML. SLIP REPAIR AND MASS GRADING IN RELATION TO SITE Remediation/Mine Reclamation Engineering? SERVICES FOR PRE AND POST MINE SUBSIDENCE FOR MAJOR COAL COMPANIES. PROJECTS INVOLVING LAND REMEDIATION, STORM WATER DRAINAGE, Is your firm experienced in Abandoned Mine Lar Description and Number of Project: THRAS ARKWRIGHT, OSAGE AND HUMPHREY MINES IN MONONGALIA COUNTY YES TO THE WV à
- ANALYSIS LAB AT ITS CLARKSBURG, WV OFFICE. SOIL ANALYSIS EXPERIENCE IS SPECIFICALLY IN GRADATIONS AND CLASSIFICATION THRASHER ENGINEERING MAINTAINS A MATERIALS TESTING AND WE PERFORM THESE SOIL ANALYSES ON ALL OUR PRIVATELY FUNDED SITE DEVELOPMENT PROJECTS. Is your firm experienced in Soil Analysis?

 YES Description and Number of Projects: Description and Number of Projects: щ
- Description and Number of Projects: OUR TEAM ENVIRONMENTAL MANAGER PARTICIPATED IN THE ENGINEERING THROUGH OUR WORK IN THE PLANNING AND DESIGN OF BRIDGES FOR THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS AND WATER LINE EXTENSION PROJECTS, THRASHER ENGINEERING HAS EXTENSIVE EXPERIENCE IN HYDROLOGY. WE ALSO HAVE EXTENSION EXPERIENCE IN HYDRAULIC MODELING FOR WATER AND WASTEWATER PROJECTS RELATIONSHIP TO ONE ANOTHER AND TO ADJACENT MINING OPERATIONS. SHE ALSO WAS INVOLVED IN THE STRATEGIC PLACEMENT OF THE MORGANTOWN OPERATIONS OF CONSOL COAL COMPANY. THIS INCLUDED THE GEOLOGIC HYDROLOGY STUDY OF THE ARKWRIGHT, OSAGE PURSGLOVE AND HUMPHREY MINE POOLS AND THER INTER-Is your firm experienced in hydrology and hydraulics? AACID MINE DRAINAGE TREATMENT FACILITIES AND PLANT DESIGN. AND ENVIRONMENTAL PERMITTING OF THE FINAL ABANDONMENT THROUGHOUT WEST VIRGINIA. ς;
- Does your firm produce its own Aerial Photography and Develop Contour Mapping? Description and Number of YES Projects: i.

WE UTILIZE THE SERVICES OF NUMEROUS FIRMS, INCLUDING PENTREE, INC. WHICH IS AN AFFILIATE COMPANY OF THRASHER ENGINEERING INC. THROUGH THE RESOURCE ENGINEERING GROUP HOLDING COMPANY. ဋ

- THRASHER ENGINEERING (Include any experience your firm has in DESCRIPTION AND NUMBER OF PROJECTS: Is your firm experienced in domestic waterline design? evaluation of aquifer degradation as a result of mining. Description and Number of Projects: YES M.
 - HAS DESIGNED OVER 100 WATER LINE EXTENSION PROJECTS IN THE PAST 20 YEARS OF BUSINESS. PROJECTS INCLUDE LINES, BOOSTER STATIONS, WATER TREATMENT PLANTS, AND STORAGE FACILITIES. MANY OF THESE PROJECTS ARE IN AREAS WITH AML AFFECTED WATER
- Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

MINING OPERATIONS. SHE ALSO WAS INVOLVED IN THE STRATEGIC PLACEMENT OF ACID MINE DRAINAGE TREATMENT FACILITIES AND PLANT DESIGN. IN ADDITION, THRASHER ENVIRONMENTAL, THE CHARLESTON WY BRANCH OF OUR COMPANY DESIGNED AN AWARD WINNING OUR TEAM ENVIRONMENTAL MANAGER PARTICIPATED IN THE ENGINEERING AND ENVIRONMENTAL PERMITTING OF THE FINAL ABANDONMENT OF THE MORGANTOWN OPERATIONS OF CONSOL COAL COMPANY. THIS INCLUDED THE GEOLOGIC HYDROLOGY STUDY OF THE WVDEP RELATED SPECIFICALLY TO ACID MINE DRAINAGE AND ABATEMENT, BOTH OF WHICH ARE LOCATED IN BARBOUR COUNTY, WEST Description and Number of Projects: TEI IS CURRENTLY DESIGNING TWO RECLAMATION PROJECTSFOR THE ARKWRIGHT, OSAGE PURSGLOVE AND HUMPHREY MINE POOLS AND THEIR INTER-RELATIONSHIP TO ONE ANOTHER AND TO ADJACENT WATER TREATMENT PLANT FOR MARTINKA MINES IN MARION COUNTY, WEST VIRGINIA TO TREAT DRAINAGE. KES VIRGINIA.

13. FER AL HISTORY STATEMENT OF PR dath_out keep to essentials)	FKINCIPALS AND ASSOCIATE KEST	KESPONSIBLE FOR AMIL PROJECT DESIGN (FULLITED COMP.	g)
T.		YEARS OF EXPERIENCE	
MORAN, KENNETH P.	YEARS OF AML DESIGN EXPERIENCE: 6	EXPERIENCE: 16 EXPERIENCE: 16 EXPERIENCE: 200 DESIGN EXPERIENCE: 200 DESIGN EXPERIENCE: 200 DESIGN	TIC GN 23
Mr. Moran joined Thrasher Engineering Chief Engineer.	ng in 1991 and currently serves	as Vice President and Chief Operations	Officer and
Mr. Moran is responsible for management for local state, federal and private cl. engineering and with funding and regula	feasibility stud ients. Additional tory agencies in	iss and design of public utility and site development ly, Mr. Moran has extensive experience in all aspects conjunction with projects.	nt projects is of
EDUCATION (Degree, Year, Specialization)	cion) B.S., Civil Engineering	cing Technology, 1983 - Fairmont State University	sity
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Friendship Lodge No.56 A.F. & A.M. WV Society of Professional Engineers Member of American Society of Civil E	rions 4. sers 71 Engineers	REGISTRATION (Type, Year, State) Control Registered Professional Engineer (PE), of West Virginia #11309 Registered Professional Engineer (PE), of Virginia#0102021855 Registered Professional Engineer (PE), of Ohio #64412 Professional Land Surveyor (PS), State), State (), State (), State te of West
		Virginia#1333	
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESP	RESPONSIBLE FOR AML PROJECT DESIGN (Furnish comp	complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
BILLER CHADWICK D. P.E.	YEARS OF AML DESIGN EXPERIENCE: 2	YEARS OF AML RELATED DESIGN YEARS OF DOMESTIC	TIC GN S
Brief Explanation of Responsibilities: Mr. Bill on site development, highways, roads, bridges, partner of Thrasher Engineering. For Thrasher public and private site development projects, Manager for all of the firm's WVDOT/DOH project	ller has experien , and airports. M Engineering, Mr. specializing in cts, he has exten	in all aspects of engineering with specifi Biller joined Thrasher Engineering in 1999 iller is responsible for WV DEP AML project rports, highways, roads and bridges. As Pro ve knowledge of state and federal building	c emphasis and is a and ject standards.
EDUCATION (Degree, Year, Specialization: B.S., Civil Engineering, 1992 - West	zation: - West Virginia University		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers Society of American Military Engineers National Society of Professional Engineers	rions ars ineers Engineers	REGISTRATION (Type, Year, State) Consistered Professional Engineer(PE), State West Virginia #13620 Registered Professional Engineer (PE), State Pennsylvania #PE056012E Registered Professional Engineer (PE), State Ohio #64594	PE), State of (PE), State of (PE), State of

<pre>13. FER AL HISTORY STATEMENT OF FRINCIPALS datout keep to essentials)</pre>	AND ASSOCIATE	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish comp
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
NESTOR, MICHAEL - PROJECT ENGINEER	YEARS OF AML DESIGN EXPERIENCE: 1	YEARS OF AML RELATED DESIGN EXPERIENCE: 6	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 6
Brief Explanation of Responsibilities	Mr. Nestor joined Thrasher	Engineering in 2005 and serves	s as Project Manager and
has a wide r tructure des water drains cor oversees is, and staff esting, and	rience in resident g street and lot l ter management, er operations within o ensure successfu l services.	ial and commercial site development ayout, street profiles, extensions cosion and sediment control plans, an The Berkeley Associates, directing a Il completion of projects covering sil	ment projects, utilizing ons of public sewer and us, and NPDES permitting. ing administrative ng site development,
EDUCATION (Degree, Year, Specialization) C B.S. Civil Engineering Technology	ion) ogy - Fairmont State University,	ty, 2003	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers Eastern Panhandle Home Builders Associa	IIZATIONS Engineers Iders Association	REGISTRATION (Type, Year, State C ENGINEERING INTERN (EIT), Virginia	State) EIT), State of West
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
FLETCHER, SHEIRL	YEARS OF AML DESIGN EXPERIENCE: -23	YEARS OF AML RELATED DESIGN EXPERIENCE: 23	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: -
Brief Explanation of Responsibilities Sheirl Fletcher joined Thrasher Engine joining Thrasher, Sheirl served as Envand brings comprehensive knowledge of to our clients' projects, along with	eering, Inc. in 2007 and vironmental Manager for environmental regulato technical expertise in	invironmental Manager [firm. She has more tand reporting require	for the firm. Prior to than 20 years experience rements in multiple states bgy and hydrology
EDUCATION (Degree, Year, Specialization)	ion)		
☐ B.S., West Virginia University, Morgantown,	, Morgantown, WV - Bachelor of	f Science- Geology	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NOI	REGISTRATION (Type, Year, St.	State)
		<pre>Licensed Professional Geologist Commonwealth of Pennsylvania Certified Professional Geologist of West Virginia</pre>	Geologist (LPG), Ivania Geologist (CPG), State

RSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete ta but keep to essentials)	TITLE (Last, First, Middle Int.) YEARS OF EXPERIENCE YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 5 EXPERIENCE: 5 EXPERIENCE: 5	Explanation of Responsibilities Mr. Pine joined Thrasher Engineering in 2005 and serves as CADD Operator for the His duties entail all aspects of infrastructure design including street and log layout, street profiles, sion of the public sewer and water systems including utility plans and profiles, storm water drainage, storm management, erosion and sediment control plans and NPDES permitting	EDUCATION (Degree, Year, Specialization) Certificate, Computer Aided Design - Hagerstown Community College Diploma - Clear Spring High School	SHIP IN PROFESSIONAL ORGANIZATIONS REGISTRATION (Type, Year, State)	RSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete ta but keep to essentials)	TITLE (Last, First, Middle Int.)	KURT EXPERIENCE: 23	Brief Explanation of Responsibilities Mr. Newbrough joined Thrasher Engineering in 1990 and is Principal and Partner in the firm. Mr. Newbrough serves as Survey Supervisor and is responsible for assignment and review of all survey activities. Mr. Newbrough has extensive experience in all aspects of surveys, including but not limited to boundary and easement surveys and the preparation of plats and legal descriptions. Mr. Newbrough also performs courthouse research, computes field data for construction layout, and processes GPS raw data for both public and private clientele in conjunction with Thrasher Engineering projects as well as separate contracts. He also serves in the elected position of Harrison County (WV) Surveyor.	EDUCATION (Degree, Year, Specialization) La Surveying - John Tyler Community College, Chester, VA La United Career Center, Clarksburg, WV	MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Date
13. PERSONAL data but	NAME & TITI PINE, JEFI	Brief Exple firm. His o extension o water mana	EDUCATION (D Certific Diploma	MEMBERSHI P	13. PERSONAL data but	NAME & TITI	NEWBROUGH,	brief Explain the firm activities and easemen research, clientele alected points.	EDUCATION Surve Unite	MEMBERSHIP West Americ Member

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

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

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 AutoCAD Landdesktop 2008 and Microstation V8 software is utilized at 48 CAD stations throughout our locations. offices Thrasher Engineering, Inc. also utilized 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. This equipment includes: The equipment used to complete survey services for AML projects includes:

- Leica Geosystem System 500 GPS
- Leica Ski Post Processing Software
- Topcon G600 Total Station Instrument
- Leica 303 Total Station Instrument
- Leica 307 Total Station Instrument
- Leica 403 Total Station Instrument
- Leica 405 Total Station Instrument Lecia 407 Total Station Instrument

 - Lecia 703 Total Station Instrument

ECORD: SITE DEVELOPMENT PROJECTS
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PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
ANGLIN'S RUN AND ROARING CREEK STREAM AML RECLAMATION BARBOUR AND RANDOLPH COUNTIES, WV	WV DEP- DEPARTMENT OF AML 601 57th Street, SE Charleston, WV 25304	ENGINEERING DESIGN FOR PORTAL SEALING, DRAINAGE AND RECLAMATION	\$700,000.00	30%
WHITE OAKS BUSINESS PARK SITE DEVELOPMENT AND UTILITIES HARRISON COUNTY, WV	HIGH TECH CORRIDOR DEVELOPMENT, LLC MR. JACK KEELEY PO BOX 1532 CLARKSBURG, WV 26302	SITE DEVELOPMENT DESIGN (LAND PLANNING, GRADING, UTILITIES) SURVEY, CONST. MGT, MATERIALS TESTING	\$12,100,000.00	%08
MCHENRY BUSINESS PARK SITE DEVELOPMENT AND UTILITIES GARRETT COUNTY, MD	GARRETT COUNTY EDA 203 SOUTH 4TH STREET COURTHOUSE ROOM 208 OAKLAND, MD 21550 301-334-1921	SITE DEVELOPMENT DESIGN (LAND PLANNING, GRADING, UTILITIES) SURVEY, CONST, MGT, MATERIALS TESTING	\$3,500,000.00	6 55 %
RITCHIE COUNTY BUSINESS PARK SITE DEVELOPMENT RITCHIE COUNTY	RITCHIE COUNTY ECONOMIC DEVELOPMENT AUTHORITY 217 WEST MAIN STREET HARRISVILLE, WV 26362	SITE DEVELOPMENT DESIGN (LAND PLANNING, GRADING, UTILITIES) SURVEY, CONST. MGT, MATERIALS TESTING	\$2,000,000.00	50%
CITY OF PLEASANT VALLEY SIDEWALKS PROJECT MARION COUNTY, WV	CITY OF PLEASANT VALLEY, 2340 KINGMONT ROAD PLEASANT VALLEY, WV 26554	DESIGN, SURVEY, CONSTRUCTION MGT, INSP AND TESTING - SIDEWALKS PHASE III	\$250,000.	809
NORTH CENTRAL WV AIRPORT HARRISON COUNTY, WV VARIOUS - HANGERS /STORM WATER	BENEDUM AIRPORT AUTHORITY JAMES R. GRIFFITH, AIRPORT MGR. 2000 AVIATION WAY BRIDGEPORT, WV	SITE DEVELOPMENT DESIGN (LAND PLANNING, GRADING, UTILITIES) SURVEY, CONST. MGT, MATERIALS TESTING	\$500,000 to \$1,000,000.00	ON-GOING
TOTAL NUMBER OF PROJECTS: 6 (TOTAL IN FULL APPROXIMATELY APPROXIMATELY 40 MILLION)	30 SITE DEVELOPMENT	TOTAL ESTIMATED - \$18,600,000.00	TED CONSTRUCTION COSTS:	

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD: WATER TREATMENT AND DISTRIBUTION PROJECTS

PROJECTS				1
PROJECT NAME, TYPE AND	NAME AND ADDRESS OF	NATURE OF YOUR FIRM'S	ESTIMATED CONSTRUCTION	PERCENT COMPLETE
LOCATION	OWNER	RESPONSIBILITY	COST	
CHESTNUT RIDGE PSD	CHESTNUT RIDGE PSD	FEASIBILITY STUDY,		
BARBOUR/PRESTON	209 S MAIN STREET	DESIGN, FUNDING AND	www.verbend	
EXTENSION	P.O. BOX 386	PERMIT APPLICATIONS,	\$9,500,000	30%
BARBOUR COUNTY, WV	PHILIPPI, WV 26416	CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY		
JESSICA LYNCH WATER LINE	TOWN OF ELIZABETH			
EXTENSION	200 BEVERLY STREET	DESIGN, FUNDING AND		c c
WIRI COUNTY, WV		PERMIT APPLICATIONS,	\$3,600,000	% > o
	ELIZABETH, WV 26143	FIELD SERVICES OF SURVEY		
SOUTHWESTERN PSD	SOUTHWESTERN WATER	FEASIBILITY STUDY,		
WATER LINE EXTENSION /	PUBLIC SERVICE DISTRICT	DESIGN, FUNDING AND		30%
REPLACEMENT	P. O. BOX 98	PERMIT APPLICATIONS,	\$10,430,000.	
	FLEMINGTON, WV 26347	CONTRACT DOCUMENTS,		
		5		
HAMRICK PSD	HAMRICK DSD	FEASIBILITY STUDY.		
MOORE/PORTERWOOD	PO BOX 228	DESIGN, FUNDING AND		
EXTENSION	HENDRICKS, WV 26271	PERMIT APPLICATIONS,	\$1,100,000.	72 ng
TUCKER COUNTY, WV		CONTRACT DOCUMENTS,		
		3		
LINCOLN COUNTY PSD	LINCOLN PSD	FEASIBILITY STUDY,	***	***************************************
WATER LINE EXTENSION	P.O. BOX 38	DESIGN, FUNDING AND	\$6,920,000.	25%
PROJECTS	240 LITTLE COAL RIVER	PERMIT APPLICATIONS,		
		SINE		
	ALUM CREEK, WV 25003	FIELD SERVICES OF SURVEY		
TOU THE THE PERSON PROPERTY OF THE PERSON PROPERTY PROPER	GOT WHINING OF WINCH FOOT			
		DESTON PINDING AND	\$10.456.000.	
DIRBIN / BARTOW/FRANK		PERMIT APPLICATIONS.	*****	25%
	:	CONTRACT DOCUMENTS,		
		FIELD SERVICES OF SURVEY		
		AND INSPECTION		
P	SALEM, CITY OF	FEASIBILITY STUDY,	4 0 0 0	808
VIRGINIA	F.O. BOA 332 229 W. MAIN	FUNDING APPLICATI	• • • • • • • • • • • • • • • • • • • •	
WATER LINE REPLACEMENT	SALEM, WV 26426	CONTRACT DOCUMENTS,		
		FIELD SERVICES OF SURVEY		
		OTTOM YOUT		**************************************
TOTAL NUMBER OF PROJECTS:	ROXIM		ED CONSTRUCTION COSTS:	
ADDITIONAL CURRENTLY IN PRELIMINARY / DESIGN	Q.	CONSTRUCTION \$32,830,000.00	IO REPRESENTED H OH ATT TODG ADDOOFWAHDTO	W 61EO 000 000 00
PHASES		CO CELIMATES COS	OF MELL UODS	

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
BROOKE COUNTY PSD REPLACEMENT AND EXTENSION BROOKE COUNTY, WV	BROOKE CO. PSD 711 CHARLES ST. P. O. BOX 150 WELLSBURG, WV 26070	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$22,000,000	65%
GREATER HARRISON COUNTY PSD PHASE II HARRISON COUNTY, WV	GREATER HARRISON COUNTY PSD P.O. BOX 190 WEST MILFORD, WV 26451	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$11,600,000	809
TENNERTON PSD SANITARY SEWER EXTENSION UPSHUR COUNTY, WV	TENNERTON PSD 188 FAYETTE ST. BUCKHANNON, WV 26201	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$1,675,000.	75%
POCAHONTAS COUNTY PSD WWTP AND COLLECTION SYSTEM POCAHONTAS COUNTY, WV	POCAHONTAS COUNTY PSD HC 63 BOX 122 FRANK, WV 24920	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$11,600,000	30%
HEPIZIBAH PSD SANITARY SEWER EXTENSION HARRISON COUNTY, WV	ENLARGED HEPZIBAH DRAWER H HEPZIBAH, WV 26369	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$3,400,000	20%
MALDEN PUBLIC SERVICE DISTRICT SANITARY SEWER REHABILITATION KANAWHA COUNTY, WV	MALDEN PUBLIC SERVICE DISTRICT P.O. BOX 350 TAD, WV 25201-0350	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$13,600,000.	ന ന %
CANYON PUBLIC SERVICE DISTRICT SANITARY SEWER UPGRADE AND EXT MONONGALIA COUNTY, WV	CANYON PSD 12 WICHITA STREET MORGANTOWN, WV 26508	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$6,500,000.	50%
TOTAL NUMBER OF PROJECTS: TOTAL ACTIVE SANITRY SEWER	7 REPRESENTED R PROJECTS APPROXIMATELY 32	TOTAL	CONSTRUCTION COSTS:	\$70,300,000.00 \$150,000,000

T ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATF FUGINEER OF RECORD: SANITARY SEWER PROJECTS

15. CUF

		TITO I		1
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
CORRIDOR H GRANT COUNTY, WV	WVDOT/DOH 1900 KANAWHA BLVD EAST CHARLESTON, WV 25305	PRELIMINARY ENGINEERING, DESIGN, SURVEY	\$22,000,000.	75% - NEED FINAL COMMENTS / FINAL FIELD REVIEW
MINERAL WELLS ROUTE 2 WOOD COUNTY	WYDOT/DOH 1900 KANAWHA BLVD EAST CHARLESTON, WV 25305	PRELIMINARY ENGINEERING, DESIGN, SURVEY	TBD - JUST AWARDED	JUST AWARDED
TOTAL NUMBER OF PROJECTS: 6 (TOTAL IN FULL APPROXIMATELY 30 APPROXIMATELY 40 MILLION)	MATELY 30 SITE DEVELOPMENT	TOTAL ESTIMATE \$46,300,000. +	TOTAL ESTIMATED CONSTRUCTION COSTS: \$46,300,000. +	

IT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATF ENGINEER OF RECORD: HIGHWAY, BRIDGE, SIDEWALKS

15. CUF

TRUCTION C T	YOUR FIRMS RESPONSIBILITY	\$50,000,000.			
ESTIMATED CONSTRUCTION	ENTIRE PROJECT	\$220,000,000.			
ESTIMATED COMPLETION DATE	•	2010			
NAME AND ADDRESS OF OWNER		US DEPARTMENT OF JUSTICE FEDERAL BUREAU OF PRISONS DESIGN AND CONSTRUCTION BRANCH 500 FIRST STREET NW WASHINGTON, DC 20534			
NATURE OF FIRMS RESPONSIBILITY		SITE DEVELOPMENT ENGINEERING DESIGN (GRADING/ STORM WATER/UTILITIES/ ROADS)			
PROJECT AME, TYPE AND JATION		MC DOWELL COUNTY FEDERAL PRISON WELCH, WV SITE DEVELOPMENT			

17 C. J.RTED WORK WITHIN LAST 5 YEARS ON WHICH	YOUR FILE	AS THE DESTGNATED ENGINEER OF RECORD		
	ORESS 2	ESTIMATED CONSTRUCTION	YEAR	CONSTRUCTED (YES OR NO)
RALEIGH MEMORIAL AIRPORT RALEIGH COUNTY, WV	RALEIGH CO AIRPORT AUTHORITY 176 AIRPORT CIRCLE, ROOM 115 BEAVER, WV 25813-9475	\$5,000,000.00 PHASE I	2007	YES
WOLFE CREEK PARK FAYETTE COUNTY, WV	FAYETTE COUNTY COMMISSION FAYETTE COUNTY COURTHOUSE 100 COURT STREET FAYETTE, WV 25840-0307	\$4,500,000 PHASE 1	2007	YES
PINECREST DEVELOPMENT RALEIGH COUNTY, WV	PINECREST DEV AUTHORITY 200 MAIN STREET BECKLEY, WV 25801-4613	\$1,500,000.00	2007	YES
CITY OF PARSONS SANITARY SEWER LINE EXTENSION TUCKER COUNTY, WV	PARSONS, CITY OF 341 2ND ST. PARSONS, WV 26287	\$ 900,000	2007	YES
TOWN OF FARMINGTON WATER LINE REPLACEMENT PROJECT MARION COUNTY, WV	TOWN OF FARMINGTON 1314 MILL STREET FARMINGTON, WV 26571	\$1,300,000.	2007	YES
CITY OF KINGWOOD WHETSELL SETTLEMENT WATER LINE EXTENSION PRESTON COUNTY, WV	KINGWOOD, CITY OF 313 TUNNELTON ST. KINGWOOD, WV 26537-1462	\$ 420,000.	2007	Yes
NORTON-HARDING-JIMTOWN PSD WATER LINE EXTENSION RANDOLPH COUNTY, WV	NORTON-HARDING-JIMTOWN PSD P.O. BOX 87 SCOTT ROAD NORTON, WV 26285	\$1,000,000	2007	Yes
TOWN OF BATH - BERKELEY SPRINGS WATER WORKS MORGAN COUNTY, WV	TOWN OF BATH 271 WILKES STREET BERKELEY SPRINGS, WV 25411	\$2,000,000	2007	YES

17. COMPLETED WORK WITHIN LAST 5	YEARS ON WHICH YOU WERE THE	DESIGNATED ENGINEER OF RECORD		
OJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
NICHOLAS COUNTY BUSINESS PARK, NICHOLAS COUNTY, WV SITE DEVELOPMENT	NICHOLAS CO BLDG COMMISSION 700 MAIN STREET, SUITE 1 SUMMERSVILLE, WV 26651	\$2,500.000.00	2008	VESS
RALEIGH COUNTY PUBLIC SERVICE DISTRICT 2 WATER LINE EXTENSIONS	RALEIGH COUNTY PSD 224 EAST MAIN PO BOX 1286 SOPHIA, WV	\$3,700,000.	2006	YES
GILMER COUNTY PSD DUSK CAMP WATER LINE EXTENSION GILMER COUNTY, WV	GILMER COUNTY PSD 232 W. MAIN STREET GLENVILLE, WV 26351	\$2,500,000	2008	YES
HODGESVILLE PUBLIC SERVICE DISTRICT; DESIGN AND CONSTRUCTION OF WATER LINE EXTENSION, BOOSTER STATIONS, AND WATER STORAGE TANK	HODGESVILLE PUBLIC SERVICE DISTRICT 188 FAYETTE STREET P.O. BOX 758 BUCKHANNON, WY 26201	\$3,100,000	2004	YES
CITY OF CAMERON WATER STORAGE TANK MARSHALL COUNTY, WV	CITY OF CAMERON 44 MAIN STREET CAMERON, WV 26033	\$2,000,000.00	2008	YES
HAMRICK PUBLIC SERVICE DISTRICT, TUCKER COUNTY, WEST VIRGINIA; DESIGN, PREPARATION AND CONSTRUCTION MANAGEMENT TO UPGRADE THE WATER TREATMENT PLANT	HAMKICK PUBLIC SERVICE DISTRICT P.O. BOX 228 HENDRICKS, WV 26271	\$2,461,000	2004	YES
PUTNAM COUNTY BUSINESS PARK; MITICATION OF 13 ACRES OF IMPACIED WETLAND	PUTNAM COUNTY DEVELOPMENT AUTHORITY P.O. BOX 167 SCOIT DEPOI, WV 25560	\$1,500,000	2004	YES
TOWN OF ROWLESBURG WAIER TREAIMENT PLANT/ EXT. PRESTON COUNTY, WV	TOWN OF ROWLESBURG PO BOX 458 42 POPLAR STREET ROWLESBURG, WV 26425	\$4,500,000.	2008	YES

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,		CONSTRUCTED (YES OR NO)	YES	YES	YES			
		YEAR	2008	2008	2008			
	ENGINEER OF RECORD	ESTIMATED CONSTRUCTION COST	\$1,300,000.	\$1,119,000.00	\$1,200,000.			
	^ 4 €	NAME AND ADDRESS OF OWNER	WYDOT/DOH 1900 KANAWHA BLYD EAST CHARLESTON, WY 25305	INTERNATIONAL COAL GROUP, INC. 2000 ASHLAND DRIVE ASHLAND, KY 41101	CITY OF RIPLEY TIM KING, CITY SUPERINTENDENT 203 SOUTH CHURCH ST. RIPLEY, WV 25271			
	LAST	PROJECT NAME, TYPE AND LOCATION	JAKES RUN BRIDGE MONONGALIA COUNTY, WV	ICG - THREE FORKS BRIDGE TAYLOR COUNTY	CITY OF RIPLEY - MAIN STREET REVITALIZATION - JACKSON CO.			

ATED WITH OTHER FIRMS (INDICATE PHASE OF WORK FOR WH. YOUR 18. APLETED WORK WITHIN LAST 5 YEARS ON WHICH YOU WERE AS. FIRM WAS RESPONSIBLE)

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
GLENVILLE FEDERAL CORRECTIONAL INST. SITE DEVELOPMENT GILMER COUNTY, WV	FEDERAL BUREAU OF PRISONS 320 1 ST STREET NW 500-6 WASHINGTON, DC 20534		2003	YES	BELL JUSTICE FACILITIES
FEDERAL BUREAU OF PRISONS -CANAAN FACILITY - SITE DEVELOPMENT - SCRANTON, PA	FEDERAL BUREAU OF PRISONS 320 1 ST STREET NW 500-6 WASHINGTON, DC 20534	\$120,000,000	2002	YES	BELL JUSTICE FACILITIES
FAIRMONT STATE COLLEGE - STUDENT DORMITORY - SITE DEVELOPMENT - FAIRMONT, WV	FAIRMONT STATE UNIVERSITY 1201 LOCUST AVENUE FAIRMONT, WV 26554-2491	\$6,000,000	2004	XES	VOA ARCHITECTS
FAIRMONT STATE COLLEGE - PARKING GARAGE- SITE DEVELOPMENT -FAIRMONT, WV	FAIRMONT STATE UNIVERSITY 1201 LOCUST AVENUE FAIRMONT, WV 26554-2491	\$4,000,000	2003	YES	MARCH-WESTIN
FAIRMONT STATE UNIVERSITY FEASTER CENTER SITE DEVELOPMENT - FAIRMONT, WV	FAIRMONT STATE UNIVERSITY 1201 LOCUST AVENUE FAIRMONT, WV 26554-2491	\$400,000.	2005	YES	VOA ARCHITECTS
FAIRMONT STATE UNIVERSITY CREATIVE ARTS AND ENGINEERING TECH BUILDING SITE DEVELOPMENT FAIRMONT, WV	FAIRMONT STATE UNIVERSITY 1201 LOCUST AVENUE FAIRMONT, WV 26554-2491	\$100,000.	2007	Yes	DESIGN ALLIANCE OMNI ASSOCIATES
, > Z	INFO	RMATION OR DESCRIPTION OF RESOURCES PROGRAM	SUPPORTING YOUR	FIRM'S	QUALIFICATIONS TO
	67/1				

20. THE FOREGOING IS A STA

TITLE: VICE-PRESIDENT / CHIEF ENGINEER SIGNATURE:

DATE: JANUARY 16, 2009

PRINTED NAME: KENNETH P. MORAN, P.E. - VICE PRESIDENT

SEW .	DEPARTMENT	3
	TANT COMPTENTIAL COMPTETCHION	Arrachment 'E'
PROJECT NAME: Various WVDEP AML Design Projects	DATE: February 25, 2008	FEIN: 52-2365940
1. FIRM NAME: Novel Geo-Environmental, LLC	OH	3. FORMER FIRM NAME:
4. HOME OFFICE TELEPHONE: (412) 722-1970	5. ESTABLISHED: 6. TYPE OWNERSHIP: 6a. WV 2002 Limited Liability Corporation	-{^^
7. PRIMARY AML DESIGN OFFICE: ADDRESS, 806 B Street St. Albans, WV 25177 304-201-5180	SS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL Office Manager: John B. Nottingham, P.E. No. AML Design Personnel in St. Albans, WV: 5 No. AML Design Personnel in Moon Township, PA: 5	BACH OFFICE:
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS Amy L. Veltri - President John E. Nottingham - Vice President	OF FIRM: 8a. NAME, TITLE, & TELEPHONE NUMBER -	OTHER PRINCIPALS
9. PERSONNEL BY DISCIPLINE (Bold Lettering	ing Indicates Minimum Design Team Members)	
- ADMINISTRATIVE - ECOLOGISTS - ARCHITECTS - ECONOMISTS - BIOLOGIST - ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL ENGINERS - ESTIMATORS 2 CIVIL ENGINERS 2 GEOLOGISTS 4 CONSTRUCTION INSPECTORS - HISTORIANS DESIGNERS - HYDROLOGISTS	ENGINEERS — LANDSCAPE ARCHITECTS — STR MECHANICAL ENGINEERS — SUBMINITALISTS — TRA MENTALISTS — PHOTOGRAMMETRISTS — TRA PHOTOGRAMMETRISTS — TRA PHOTOGRAMMETRISTS — TRA STS — SANITARY ENGINEERS 2 SOILS ENGINEERS TS — SPECIFICATION	SURVEYORAL ENGINEERS SURVEYORS TRAFFIC ENGINEERS 4 DRILLERS & HELPERS 5 OTHER PERSONNEL
NUMBER OF WV REGISTER other than Civil and ise and perform this	ENGINEERS IN P vide supporting	TOTAL PERSONNELL
5.5	G LA G, VAAGA G	
10. HAS THIS JOINT-VENTURE WORKED TOGETHER	HEK BEFORET YES	

11. OU KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO Questionaire" for each if copy is not on file with AME	USED. Attach "AML	Consultant Confidential Quali .ion
NAME AND AD	SPECIALTY:	WORKED WITH BEFORE
		Yes
NAME AND ADDRESS:	SPECIALTY:	EFORE
NAME AND ADDRESS:	SPECIALTY:	NORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	No WORKED WITH BEFORE
		Yes
NAME AND ADDRESS:	SPECIALTY:	No WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
NAME AND ADDRESS:	SPECIALTY:	EFORE
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No

(John E. Nottingham) and project geologist (Chuck Montgomery) have extensive AML experience with their former firm. Additionally, NGE currently holds a contract with WVDEP-AML for geotechnical drilling for the northern district of WV NGE specializes in Geotechnical Engineering including foundation investigations, subsurface investigations, cut Note that Novel Geo-Environmental (NGE) has not performed any AML design work to date, but our WV Office Manager design, mine subsidence investigations, geologic studies, groundwater seepage analysis, foundation design, retaining wall design, pavement design, subsurface drilling and monitoring well installation. MGE has preformed a total of several hundred geotechnical engineering related projects since the company was formed While our firm has not performed any hydrology/hydraulics projects to date, our personnel have experience with analysis and corrective (Include any experience your firm has in Does your firm produce its own Aerial Photography and Develop Contour Mapping? slope design, fill embankment analysis and design, slope stability analysis, landslide Is your firm experienced in domestic waterline design? (evaluation of aquifer degradation as a result of mining.) Is your firm experienced in hydrology and hydraulics? and has completed several drilling projects under this contract. Is your firm experienced in Soil Analysis? former employers. 8 g ບ່ Ä Ľά m in 2002. NO:

Remodiation/Mine Reclamation Engineering?

Is your firm experienced in Abandoned Mine Land

13. PF I HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE SPO dab_ Jut keep to essentials)	SPONSIBLE FOR AME PROJECT DESIGN (Furnish comply	(Furnish compl.
First, Middle Int.)	YEARS OF EXPERIENCE	
Nottingham, John, E.	YEARS OF AML RELATED DESIGN EXPERIENCE: 4	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities		
Mr. Nottingham was responsible for supervising field and design work for numerous AML related landslide projects for the WVDEP while under the employment of Triad Engineering, Inc. In addition to landslide a projects, Mr. Nottingham was involved in subsidence determination investigations and subsidence abatemen Mr. Nottingham worked extensively on "emergency" projects which required quick field investigations and designs.	ork for numerous AML related landslide ering, Inc. In addition to landslide investigations and subsidence abateme equired quick field investigations and	related landslide abatement tion to landslide abatement subsidence abatement projects. investigations and corrective
EDUCATION (Degree, Year, Specialization) Bachelor of Science in Civil Engineering, 1987, WVU, Specialization Masters of Science in Civil Engineering, 1995, WVU, Specialization	- Civil and Geotechnical - Geotechnical Engineerin	Engineering
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineering (ASCE) West Virginia Chapter of AIA	REGISTRATION (Type, Year, State) Professional Engineering, 1994, Professional Engineering, 2007, Professional Surveyor, 1996, WV	ite) 4, WV 7, VA WV
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPO data but keep to essentials)	RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete	(Furnish complete
	YEARS OF EXPERIENCE	
Montgomery, Charles, E.	YEARS OF AML RELATED DESIGN EXPERIENCE: 4	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities		
Mr. Montgomery was responsible for coordinating field activities for AML landslide abatement projects for the WVDEP while employed with Triad Engineering, Inc. Mr. Montgomery has also participated in all project phases for other A work involving subsidence determinations/abatement and impounded mine pools.	for AML landslide abatement projects for the WVDEP also participated in all project phases for other AML mine pools.	ojects for the WVDEP it phases for other AML
EDUCATION (Degree, Year, Specialization)	таминализминентика и применентика и применентика и применентика и применентика и применентика и применентика и Применентика и применентика и применентика и применентика и применентика и применентика и применентика и приме	
Bachelor of Science, Geology, 1991, Marshall University		er version en
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Association of Engineering Geologists Geological Society of America	REGISTRATION (Type, Year, State) Professional Geologist, 1999, Ke	ite) Kentucky

13. PE L HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE(SP data but keep to essentials)	SPONSIBLE FOR AME PROJECT DESIGN (Furnish comple
NAME & TITLE (last, First, Middle Int.)	YEARS OF EXPERIENCE
Nottingham, Larry C. YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML EXPERIENCE:
Brief Explanation of Responsibilities	
Dr. Nottingham planned and supervised several AML investigation arriad Engineering. Projects included burning refuse pile investiremedial designs, landslide investigations and remedial designs, investigations.	restigation and reclamation projects for WVDEP while employed pile investigations and last designs, subsidence investigations, and underground mine
EDUCATION (Degree, Year, Specialization) Bachelor of Science in Civil Engineering, 1965, Civil Engineering, West Master of Science in Civil Engineering, 1966, Geotechnical Engineering, Doctor of Philosophy, 1975, Geotechnical Engineering, University of Flo	Engineering, West Virginia Institute of Technology ical Engineering, University of Pittsburgh University of Florida
ROFESSIONAL ORGANIZATIONS an Society of Civil Engineers al Society of Professional Engineers	REGISTRATION (Type, Year, State) Professional Engineer, 1985, KY Professional Engineer, 1985, OH Professional Engineer, 2006, PA
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESI data but keep to essentials)	RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete
(Last, Fir	YEARS OF EXPERIENCE EXPERIENCE: EXPERIENCE: EXPERIENCE: EXPERIENCE: EXPERIENCE: EXPERIENCE:
Brief Explanation of Responsibilities	
EDUCATION (Degree, Year, Specialization)	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN T PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AN. DESIGN SERVICES
ed on a four wheel drive one-ton truck, and two track-mounted rigs. Drills are split-spoon soil sampling equipment, and rock coring tools.
Portable dynamic cone penetrometer.
Blectric concrete coring drill.
Two equipment hauling trailers.
Software includes: Word processing, PCSTABL - Slope Stability Analysis, LPILE Plus 4.0 - Pile Foundation Analysis, PYWALL 2.0 - Retaining Wall Analysis, ReSSA 2.0 - Reinforced Soil Slope Analysis, ReSlope 3.0 - Reinforced Soil Slope Design
Soil Laboratory Equipment: Soil Oven, Scales, Sieves, Liquid and Plastic Limits Machine

PERCENT COMPLETE Unknown ₹∕≻ TOTAL ESTIMATED CONSTRUCTION COSTS: ESTIMATED CONSTRUCTION COST Unknown, Fee = \$6600.00 Unknown NATURE OF YOUR FIRM'S investigation, develop Perform geotechnical sites as directed by investigations of abandoned mine land WVDEP/AML personnel. building foundation recommendations for RESPONSIBILITY Perform subsurface and provide (drilling) design NAME AND ADDRESS OF Corporation, 6100 N. Oklahoma City, OK Chesapeake Energy Western Avenue, West Virginia
Department of
Environmental
Protection OWNER TOTAL NUMBER OF PROJECTS: PROJECT NAME, TYPE AND Annual Geotechnical Drilling Contract, Northern West Virginia Chesapeake Bnergy Office & Shop Complex, Geotechnical Investigation, Inez, LOCATION

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

-CONSULTANT TO OTHERS
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I ACTIVILLES ON WHICH YOUR FIRM IS SERVING A
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PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CON	CONSTRUCTION COST
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Ten Cell Tower Sites, Geotechnical Investigations, Various Locations Throughout WV	Determine Site Subsurface Conditions, Provide Foundation Design Recommendations.	Terradon Corp. Nitro, WV	March, 2008	Unknown	Fee \$33,000
Six Cell Tower Sites, Geotechnical Investigations, Various Locations Throughout WV	Determine Site Subsurface Conditions	PSI, Inc. 153 Williams Hwy Parkersburg, WV	March, 2008	Unknown	Fee ≈ \$12,000
Toyota Meeting Room, Geotechnical Investigation, Buffalo, WV	Geotechnical Investigation for New Building Structure	Toyota Corp. Buffalo, WV	March, 2008	Unknown	Fee \$4000
rd. rd. SSL	Perform Cross-Hole Sonic Logging of New Foundation Drilled Piers	West Virginia Dept. of Highways, Charleston, WV	August, 20008	Unknown	Fee ≈ \$17,000
Harrison Co. EMS Station, Geotechnical Investigation, Clarksburg, WV	Determine Site Subsurface Conditions, Provide Foundation Design Recommendations	-G-52	February, 2008	Unknown	Fee \$4000
Corridor H Highway Construction, Quality Control Testing, Grant Co., WV	Perform soil compaction and concrete quality control tests.	West Virginia Dept. of Highways, Charleston, WV	November, 2008	Unknown	Fee = \$75,000
Water Storage Tank, Subsurface Investigation, Gilbert, WV	Determine Site Subsurface Conditions	Gilbert PSD Gilbert, WV	March, 2008	Unknown	Fee \$3000

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	CONSTRUCTED (YES OR NO)	Yes					
	YEAR	2003					The state of the s
AS THE DESIGNATED ENGINEER OF RECORD	ESTIMATED CONSTRUCTION COST	\$30,000					
WHICH YOUR FIRM	AND ADDRESS F OWNER	Greenbrier Sporting Club, White Sulphur Springs, WV					
17. Com ABATE WORK WITHIN LAST 5 YEARS ON							

انتا	YEARS ON WAS RESPO	OUR FIL	NSULTANT	TO OTHER FIRMS	(INDICAL PHASE
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
S. Mineral Wells Interchange, Geotechnical Study, Mineral Wells, WV	WV Department of Highways Charleston, WV	\$5,000,000	2007	In Process	L. A. Gates Co.
Winefrede RR Overpass Bridge, Geotechnical Investigation, Winefrede, WV	WV Department of Highways Charleston, WV	\$1,500,000	2005	Yes	HNTB Corporation
Performing Arts Center. Geotechnical Investigation, Buckhannon, WV	West Virginia Wesleyan College, Buckhannon, WV	\$500,000	2007	Yes	R. D. Zande & Associates, Inc.
of 01 15	WV Department of Highways Charleston, WV	\$1,000,000	2004	Yes	HMB Professional Engineers, Inc.
er Tank technic estigat er, WV	lager PSD lager, WV	\$100,000	2006	Yes	Stafford
t do t	tment of on, WV		2003	Yes	Modjeski & Masters, Charleston, WV
. Use qual	provide any additional perform work for the We	formation or description Virginia Abandoned Mine	Program	supporting your	firm's
Signature: 9/2 Printed Name: 10h	a statement of facts . Children . Nothingham	Title: V/2e	President	Date: 3/3/	, o &
NOTE: THIS DOCUMENT WIL	THIS DOCUMENT WILL BECOME VOLD AFTER DECEMBER	31 IN CALENDAR YEAR	OF DATE HEREON.		

PARTICIPATION/CAPACITY *** M=Management	Eq;uipmenVStructure Removal Stream Restoration Geotechnical/Stability Ken Moran, P.E. Sheirl Fletcher Chadwick Bller, P.E. Sheirl Fletcher		M P M	A B	М	W	*	M d	W	М	N	M	WP		
PARTICIPATION/CAPACIT *** M=Management	Removal Stream Restoration Geotechnical/Stability Ken Moran, P.E.		P	M		W	*	۵	Σ	ν	×	×	WP		
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	levomeA Stream Restoration				100	2	2	Σ	2	Σ	Σ	×		N	
	Removal														
		 1 (1) (1) 		×									***************************************		
	Water Treatment						×			×					
PROJECT EXPERIENCE REQUIREMENTS	Construction megsensM\noticegenl fne		×	×	×	×	×	×	×			×			
	Water Quality Evaluation/Witigation/ Replacement									×					
ii ii	enoject Specifications		×	×	×	×	×	×	×	×	×	×			
ERIEN	Hazardous Waste Disposal														
т Ехрі	Subsidence Investigation Mitigation		×	×	×	×		×	×		×	×	×	×	
PROJEC	Mine/Refuse Fire Apatement														
	noitsulsv∃ gninimeR														
	Hydrologic/Hydraulic Design/Eval.		×	×	×	×	×	×	×	×	×	×	×		
	Portal/Shaft Closure		×	×									×	×	
	qeeD benobnadA Mine Reclamation		×	×									×	×	
	eoshuS benobnsdA Mine Recismation										×		×		
	Additional Info Provided in Section (s)		3	3	3	8	3	3	3	3	3	3	3	3	
	Exp. Basis C=Corp. P=Personal		0	၁	ပ	ပ	ာ	ှ	၁	٥	ပ	၁	Ь	၂ ၁	
	PROJECT		WV DEP ANGLINS RUN	WV DEP ROARING CREEK	WV DEP AMHERSTDALE	WV DEP RAGLAND	MARTINKA COAL COMPANY	WHITE OAKS BUSINESS PARK	HARRISON CO.BUSINESS PARK	ERT C BYRD IND. PARK	IAN RIDGE IND. PARK	WV NATIONAL CEMETARY	CONSOL COAL COMPANY	ERN ASSOCIATED COAL	1000
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^{*} 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.

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: THRASHER	ENGINEERING, INC.	
Authorized Signature:	M- M2	
Authorized Signature: ///	1 Julie -	_Date:JANUARY 16, 2009

Purchasing Affidavit (Revised 07/01/08)