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Header # 1



General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1717189


Procurement Type: Central Purchase Order

Vendor ID: \VC0000099853 

Legal Name: RESPEC COMPANY LLC

Alias/DBA:

Total Bid: \$250,000.00

Response Date: 08/20/2025 

Response Time: 11:59

Responded By User ID: WFaulkner00 

First Name: Whitney

Last Name: Faulkner

Email: whitney.faulkner@respec.cor

Phone: 7732185866

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SO Dept: 0313


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Solicitation Description: AML - EOI Pre-Qualification for Consultants 

Total of Header Attachments: 1

Total of All Attachments: 1



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

State of West Virginia
Solicitation Response

Proc Folder: 1717189
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Solicitation Closes	Solicitation Response	Version
2025-08-20 13:30	SR 0313 ESR08202500000001198	1

VENDOR
VC0000099853
RESPEC COMPANY LLC

Solicitation Number: CEOI 0313 DEP2600000001
Total Bid: 250000
Response Date: 2025-08-20
Response Time: 11:59:43
Comments:

FOR INFORMATION CONTACT THE BUYER
Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor		
Signature X	FEIN#	DATE

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI Engineering Design Services				250000.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:
EOI Engineering Design Services



SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON STREET EAST
CHARLESTON, WV 25305-0130

SUBMITTED BY:

RESPEC COMPANY, LLC
8000 COOMBS FARM DRIVE
SUITE 101
MORGANTOWN, WV 26508

EXPRESSION OF INTEREST -
AML ENGINEERING DESIGN SERVICES

SOLICITATION #: CEOI 0313 DEP2600000001



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August 20, 2025

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

Dear Mr. Hager,

RE: Response to Expression of Interest (EOI) - 2025 AML Contract DEP2600000001 (RSI/P-11893)

RESPEC Company, LLC (RESPEC) submits this Expression of Interest to support the West Virginia Department of Environmental Protection (WVDEP), Division of Land Restoration (DLR), Office of Abandoned Mine Lands and Reclamation (AML&R), as outlined in the current solicitation for prequalification of consultant firms. Our team is equipped to deliver full-service architectural and engineering solutions for AML projects, providing planning, realty, design, and construction oversight focusing on safety, compliance, and practical outcomes.

WVDEP's AML&R program faces the challenge of addressing hazardous mine features while managing complex permitting, tight schedules, and the need for minimal oversight. We understand the importance of early stakeholder engagement, securing rights-of-entry, and maintaining open communication with property owners, critical factors for timely project delivery in West Virginia's unique landownership landscape. RESPEC's technical team is experienced in mitigating site-specific hazards, navigating multi-agency permitting, and providing responsive solutions that minimize administrative burdens for agency staff.

RESPEC has been involved nationally in AML programs for nearly 40 years, completing more than 100 projects for state and federal agencies. Our dedicated AML team, supported by more than 650 employee-owners across 37 offices, specializes in addressing subsidence, acid mine drainage (AMD), highwalls, and other hazards associated with historic mining. We have direct experience working with WVDEP, with a proven track record on projects such as Beckley Soccer Complex, MacArthur Subsidence Phase III, Crown Hill Refuse, Slide and Draige and Price Hill Pond Cleanings. These projects highlight our ability to adapt to site conditions, coordinate with stakeholders, and deliver schedule-driven results.

To meet the full scope of AML services required by the solicitation, our team includes the following subcontractor partners to ensure comprehensive technical coverage for project delivery:

- / New River Engineering, Inc. will provide surveying, geotechnical engineering, permitting, and construction oversight support for the project.
- / NGE Consulting will deliver geotechnical engineering, in-house drilling, laboratory services, and construction inspection.

RESPEC's project management team includes West Virginia-licensed professional engineers and surveyors with expertise in portal closures, subsidence mitigation, highwall stabilization, AMD remediation, and waterline design. Our technical approach leverages advanced tools such as

146 EAST THIRD STREET
LEXINGTON, KY 40508
P.O. BOX 888 // LEXINGTON, KY 40588
859.259.0959



drone mapping, remote laser scanning, and geotechnical modeling to ensure precise risk evaluation and mitigation. We maintain a robust quality assurance/quality control program, provide routine progress reporting, and coordinate closely with WVDEP and stakeholders to avoid project delays. Our management philosophy emphasizes flexibility and rapid response, ensuring deliverables and field investigations are completed promptly when needed.

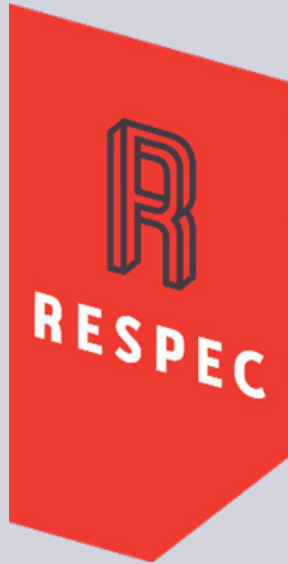
We consistently deliver schedule-driven, compliant solutions with minimal oversight, meeting all requirements of the Infrastructure Investment and Jobs Act, Davis-Bacon, Build America, Buy America, and other federal, state, and local regulations. Our history of litigation-free AML projects and national recognition from the Office of Surface Mining Reclamation and Enforcement reflect our commitment to technical excellence and reliability.

Thank you for the opportunity to present our qualifications and experience for prequalification. Please contact Dustin Morin (256.452.1054; dustin.morin@respec.com) with any questions regarding our submission.

Sincerely,

Dustin Morin
Market Sector Lead, Reclamation Services

Enclosure
cc: Project Central File 996-11893



C O R P O R A T E S U M M A R Y

➤ MANAGEMENT SUMMARY / COMPANY OVERVIEW

RESPEC Company, LLC (RESPEC) has supported Abandoned Mine Land (AML) and Abandoned Mine Reclamation (AMR) programs for nearly 40 years, completing more than 100 AML projects for state and federal agencies nationwide. Our dedicated AML team specializes exclusively in addressing hazards associated with historic mining and is committed to delivering cost-effective, compliant, and innovative engineering solutions.

Founded in 1969, RESPEC integrates applied science and technology to provide advanced solutions across multiple sectors. As a 100 percent employee-owned company with more than 650 employee-owners across 37 offices, we serve clients in the Mining & Energy, Water, Data & Technology Solutions, Facilities, Transportation, and Land Development Services market sectors. In 2024, we acquired EARTHRES to expand our mining, energy, and environmental solutions expertise in the Appalachian region.

To meet the increasing demand for effective AML/AMR services, RESPEC's Mining & Energy division established a dedicated Abandoned Mine Reclamation subdivision in 2023. This multidisciplinary team operates across several states and delivers responsive, schedule-driven solutions with minimal oversight required.

Currently, we are actively working on AML projects in West Virginia, Pennsylvania, Wyoming, Colorado, Montana, and New Mexico, where we conduct site investigations, features inventory assessments, mitigation designs, and construction oversight. In West Virginia, our team has supported AML work in coordination with the West Virginia Department of Environmental Protection (WVDEP), gaining direct experience with the agency's project expectations, permitting processes, and field requirements.

The team presented in this Expression of Interest (EOI), based in Lexington, Kentucky; Central City, Pennsylvania; and Morgantown, West Virginia, has experience developing engineered solutions for subsidence, hazardous water bodies, acid mine drainage systems, dangerous highwalls, dangerous slides, spoil areas, portals and vertical openings, and clogged streams. We prepare full design packages, including construction plans, technical specifications, and engineer's estimates, and provide on-site construction oversight and certification.

Dustin Morin leads RESPEC's Reclamation Division. With more than 20 years of AML and environmental restoration experience, Dustin brings expertise in project and program management, National Environmental



RESPEC AND AML

RESPEC understands both mining and reclamation and has been involved nationally in the AML program for nearly 40 years. RESPEC has completed more than 100 AML projects for state and federal agencies during this period.

RESPEC SERVICES

- » AML Reclamation
- » Subsidence
- » Acid Mine Drainage
- » Hazardous Water Bodies
- » Highwall Stabilization
- » Portal Closures
- » NEPA Permitting
- » Road Design
- » Slope Stabilization
- » Construction Services
- » Stream Design
- » Water/Wastewater Treatment
- » Geotechnical Evaluation
- » Impoundment Design
- » Waterlines



POINT OF CONTACT

DUSTIN MORIN, PE

256.452.1054

Dustin.Morin@respec.com

Policy Act (NEPA) compliance, and grant administration. As the former Director of the Alabama Department of Labor's Mining and Reclamation Division (2021–2024), he oversaw the AML Section, State Mine Safety & Inspection Section, and Surface Mine permitting and inspection of the Non-Fuel Minerals Section. With more than a decade of experience with the Department of Labor, he has a diverse background in land restoration, environmental science, and construction project management. Dustin has served as President of the National Association of Abandoned Mine Land Programs and has represented Alabama on the Interstate Mining Compact Commission since 2019.

Supporting Dustin, Jesse Hatter, PE, and Whitney Faulkner, PE, lead RESPEC's AML East program. Together, they have contributed to more than 85 AML projects, managing mitigation planning, subconsultant coordination, budget and scope management, client communication, and construction documentation. Their leadership ensures technical quality, efficiency, and strong client alignment.

» OUR PARTNERS

To support RESPEC's comprehensive approach to AML and AMR projects, we are partnering with New River Engineering, Inc. (NREI) and NGE Consulting (NGE). Both firms bring specialized expertise that complements RESPEC's in-house capabilities in surveying, geotechnical engineering, permitting, and construction oversight.

NEW RIVER ENGINEERING, INC.

New River Engineers, Inc. (NREI) is an engineering, surveying, and consulting firm that has provided quality service to industries for more than 20 years. NREI primarily serves the coal, oil and gas, timber, and construction industries. The staff combines advanced technology with many decades of surveying, mining, and engineering experience and includes two professional engineers, three professional surveyors, five professional engineers, AutoCAD/engineer technicians, and 12 full-time survey crews. As a full-service engineering and surveying firm, NREI provides a whole host of services, including but not limited to the following: NREI's services include:

- » Construction design
- » Construction management
- » Construction surveying
- » Geotechnical engineering and drilling management
- » Environmental permitting (WVDEP, National Pollutant Discharge Elimination System [NPDES], Office of Air Quality, and U.S. Army Corps of Engineers [USACE])
- » Underground/surface mining surveying
- » Surface Mine Planning
- » Underground Mine Planning
- » Wastewater & Drinking Water Plant designs
- » Drainage Design & SWORAs
- » LiDAR Aerial mapping & photos
- » Compaction testing with nuclear density gauge
- » Concrete Testing and Inspection
- » Concrete scanning
- » Sewer & Pipe Video Inspection
- » Subsurface utility locate surveys with ground-penetrating radar and pipe and cable locators
- » Boundary and property/topographical surveying

NGE CONSULTING

NGE is a 100% Employee-Owned, award-winning environmental and geotechnical engineering consulting firm with offices in Pennsylvania and West Virginia. Established in 2002, NGE has grown into a leading engineering firm with a broad geographic presence, operating across the United States and several international locations. NGE's professional staff includes engineers, geologists, and environmental scientists, many of whom hold professional licenses and registrations. NGE's growth and success are credited to the many years its staff and management have dedicated to building a strong reputation for efficient, cost-effective, and high-quality services.

NGE provides:

- » Geotechnical engineering
- » In-house drilling crews
- » Laboratory services
- » Environmental compliance
- » Environmental remediation
- » Waste management
- » Construction inspection
- » Drill cuttings management
- » Field Sampling



PROJECT MANAGEMENT APPROACH

➤ PROJECT MANAGEMENT APPROACH

RESPEC has a team of experienced West Virginia PEs who are well-equipped to serve as project managers for AML and permitting projects or projects with similar requirements. Each has a proven history of successfully managing projects of varying complexity, size, and budget. They are highly effective in coordinating technical staff and contractors; maintaining communication between the design team, the client, and stakeholders; managing conflicts; and overseeing the financial aspects of the project. Through frequent communication, detailed budget tracking, and diligent task scheduling and reporting, the project manager ensures the successful completion of projects that exceed client expectations.

The project manager's responsibilities will include the following, as a minimum:

- » Direct project team activities to achieve strategic goals and objectives
- » Assign work tasks and deadlines to key project team personnel
- » Provide open communication between WVDEP and the project team
- » Coordinate project team meetings, reporting, and documentation
- » Ensure compliance with the project schedule and budget
- » Engage stakeholders early to avoid conflicts and prevent project interruptions
- » Coordinate investigation and pre-design activities with affected owners to minimize risks to current and future land use
- » Ensure that all work is completed safely throughout all phases of engagement
- » Perform additional ancillary items as required by the contract

This technical approach outlines RESPEC's standard methodology for managing AML design projects. We recognize that project success begins with thorough pre-coordination and a structured kickoff meeting to align on scope, schedule, deliverables, and expectations with WVDEP and all stakeholders.

Our project framing approach is detailed below:

1 STEP 1: PROJECT MANAGER INITIAL RESPONSIBILITIES

The project manager will work closely with WVDEP to develop a detailed task implementation plan that includes:

- » Description of work and services to be performed
- » Project schedule and budget parameters
- » Clear definition of required deliverables
- » Assembly of a project team tailored to the project scope
- » Planning, coordination, and leadership of a kickoff meeting
- » Assignment of tasks and deadlines
- » Oversight of team coordination to meet strategic goals
- » Open communication between WVDEP and the project team
- » Coordination of meetings, documentation, and reporting
- » Ongoing monitoring of schedule and budget compliance

The project manager will also submit monthly status reports to WV DEP, including any issues identified, potential impacts, and recommended corrective actions.

2 STEP 2: SITE INVESTIGATIONS

RESPEC will conduct on-site field investigations to inform project planning and identify existing site conditions, risks, and constraints.

3 STEP 3: COMPILE OPTIMUM TEAM FROM RESPEC STAFF

Based on the site investigation and project-specific needs, the project manager will assemble a multidisciplinary team from RESPEC's staff. Most team members possess expertise across multiple disciplines, allowing for flexibility and cross-functional support. Where specialized skills are needed, RESPEC may supplement the team with pre-qualified subcontractors. Task leads and team assignments may be adjusted based on project complexity, required expertise, and staff availability.

4 STEP 4: PLAN FOR COLLECTING DATA

RESPEC will develop a project-specific data collection plan using appropriate field methods and available technology to enhance data collection, monitoring, and management.

5 STEP 5: DESIGN/REMEDiation PLAN

With site data in hand, the project team will develop a remediation plan and associated design documents to address the identified hazards. The design process will consider property access, rights-of-way, environmental constraints (e.g., critical habitats), and all relevant permitting requirements. RESPEC will maintain regular communication with WVDEP to share updates and design concepts and raise potential concerns. Additional data collection will be performed if needed to support design refinements.

The objective is to provide WVDEP with a complete, compliant, and constructible design package in alignment with project goals and schedule.

6 STEP 6: CONSTRUCTION MANAGEMENT

RESPEC brings significant experience in construction management, emphasizing proactive planning, coordination, and cost/schedule control. The construction manager will serve as the primary point of contact for the contractor onboarding, including support during the Request for Proposals process, interviews, and preconstruction coordination.

Depending on the project, cooperation with multiple federal and state agencies may be required. When challenges arise, RESPEC will evaluate alternative design options as necessary. Throughout construction, the construction manager ensures that the work proceeds safely, in compliance, and with close coordination with WVDEP and all regulatory bodies.



UNDERSTANDING OF THE PROJECT SCOPE (SCOPE OF WORK)

➤ PROJECTS AND GOALS

RESPEC will achieve the goals and objectives for each project by adhering to the following:

- / Full compliance with the Infrastructure Investment and Jobs Act (IIJA)
- / Adherence to all applicable provisions of the Davis-Bacon Act
- / Conformance with the Build America, Buy America (BABA) requirements
- / Compliance with all Federal, State, and Local laws and regulations governing the scope of work

RESPEC has included a task-specific understanding and a general approach for Abandoned Mine Land Features mitigation.

PLANNING WORK

- / Ensuring compliance to IIJA is important to ensuring the overall success of a project. Proper consideration must be given to ensure all funding is applied properly. RESPEC will ensure all task compliance requirements are met through a detailed understanding of IIJA in

relation to the WVDEP projects, including but not limited to the Davis-Bacon Act and the BABA.

- / During the planning phase of a project, RESPEC recognizes the importance of initiating environmental consultations early on to avoid construction delays. We will work diligently to complete all required consultations, including but not limited to the NEPA, West Virginia Division of Natural Resources, West Virginia Historic Preservation Office (SHPO), West Virginia Regional Planning consultation, U.S. Forest Service consultations, and U.S. Fish and Wildlife Service (USFWS). RESPEC will coordinate with WVDEP throughout these processes. We will also conduct an Environmental Assessment (EA) for each site and submit it to the Office of Surface Mining & Reclamation Enforcement (OSMRE). To ensure compliance with environmental and public safety requirements, RESPEC will maintain detailed records in coordination with the project owner throughout the project, facilitating timely and efficient completion.



REALTY WORK

- / As part of accessing the project sites, RESPEC will determine the legal ownership of all properties related to the reclamation work in coordination with WVDEP. The property owners of each affected property will be identified by research of Property Value Administrator records and subsequent verification with deeds in the courthouse, if needed. Effective communication will be maintained with property owners by establishing a positive and open relationship in coordination with WVDEP. We recognize that property ownership could vary from large landowning companies to small individual property owners.
- / RESPEC will obtain exploratory and construction right-of-entry from each property owner before performing activities related to the reclamation work. Effective communication will be maintained with property owners by establishing a positive and open relationship in coordination with WVDEP. Any concerns and issues raised by the stakeholders will be addressed promptly.
- / As part of accessing any project site, RESPEC will document and substantiate the legal ownership of all properties related to the reclamation and construction work in coordination with WVDEP. Documentation of the legal status of the property owner and any lessor will be provided. The need for a title opinion and potentially title insurance will be discussed with WVDEP.

DESIGN WORK

- / **Mapping, survey, and related services**
 - » Using detailed and accurate surveys, mapping, and images in plan development is key to hitting the ground running on any major project. Designs and plans without accurate and up-to-date survey and mapping information are not properly set up for success. RESPEC will use innovative technology to ensure that all required survey and map information related to the project designs and plans is collected. Technologies that RESPEC will deploy include the latest land surveying equipment, drones,

laser scanners, and borehole deviation tools. One unique and innovative tool owned and operated by RESPEC is the cavity auto laser scanner (C-ALS). The C-ALS can be safely and remotely deployed into underground void areas for a complete analysis of the project site. All surveys will be stamped by a Professional Surveyor in the State of West Virginia for deliverables.

- / **Site and geotechnical investigations**

- » Site and geotechnical investigations are essential to understanding each site's issues and how to properly mitigate them. RESPEC will perform complete site and geotechnical investigations and analysis, as required for each project. These investigations include, but are not limited to, exploratory drilling of mine portals and underground mines, surveying of all drainage features on-site, and water quality and titration testing. RESPEC will attend all site visits required by WVDEP.

- / **Analysis and design**

- » RESPEC is committed to fully removing and mitigating any hazards found on-site to protect the safety of private individuals or the public currently present. We will not introduce any new dangers to these sites. All plans will be stamped by a Registered Professional Engineer in the State of West Virginia.

- / **Portal and dangerous impoundment closures**

- » As part of reclamation design, the project site and surrounding areas, including portal seals, often require reclamation to reflect pre-mining conditions. This usually includes reclaiming the terrain to be regraded to mimic nearby terrain conditions. Proper drainage and slopes will be incorporated in this design to ensure long-term stability and establish a vegetation cover. RESPEC will use historical mappings and surveys of the project regions, as well as updated mappings and surveys, to develop a project-specific regrade design and plan incorporating all portal and mine seals to be approved by WVDEP. Bat assessments will be completed on portals to aid in the reclamation

design. RESPEC will manage the construction of the regrade designs and plans in coordination with WVDEP.

/ Slope stabilization

- » Historical mining projects can leave behind steep and/or unstable slopes, including highwalls, waste piles, slips, and refuse piles. These slopes can be hazardous to the environment and the public if they are not properly stabilized, controlled, and maintained. RESPEC will investigate and review the project locations for potential landslides and provide solutions for stabilizing identified landslide hazards. Slope and landslide stabilization will include engineering and design solutions such as material removal, surface water diversion, underdrain installation, slope redesign and regrade, rock and gabion walls, and other ground-support methodologies. During the remediation stage, RESPEC will provide on-site management services to ensure work is done to meet design requirements.

/ Mine subsidence stabilization

- » The long-term stability of features remaining from historical mining operations is crucial in ensuring public safety around abandoned mine lands. A component of this soundness is the surface stability above underground excavations associated with historical mining operations. RESPEC will perform a complete geotechnical and stability analysis of active and potential subsidence areas, as is required, for each project. Historical mining records and geological and geotechnical conditions at the site will be reviewed and evaluated. The analysis will be used to develop designs and plans to help ensure the project area's long-term stability.

/ Design to mitigate acid mine (AMD) discharge and drainage

- » The efficient treatment of AMD and other drainage is essential to the long-term success of reclamation projects. If AMD and other drainage are not appropriately treated, they can threaten public safety and the environment. If available, RESPEC

will review existing treatment systems and facilities to ensure that they work efficiently and meet all standards and regulations concerning AMD and drainage treatment. For sites requiring a new system, proper site analysis and testing will be performed before system design. Fit-for-purpose design and cutting-edge technology in AMD treatment will be key components. RESPEC will also attend to systems and controls integration during the design. If applicable, compatibility between existing and proposed technologies and equipment is crucial for seamless transition and long-term operational stability.

/ Design Reclamation of Exposed Coal Refuse and Mine Spoil

- » A major aspect of the reclamation of historical coal mines is the remediation of exposed coal refuse and mine spoil. These waste piles can have many effects on the surrounding public and environment. RESPEC will develop regrade and revegetation designs to reclaim these areas to pre-mining activity conditions. This will include effective cleanup and containment of refuse and spoil, appropriate water management systems implementation, and coverage of exposed waste material.

/ Design of drainage conveyances, including drainage channels, underdrains, and/or other controls to safely convey water off-site (water management)

- » Water management is key to protecting the longevity of reclamation projects. Proper water management and control will ensure that water drainage is not destructive to the overall reclamation designs or processes and that it maintains or exceeds established water quality standards. RESPEC will design and implement drainage channels, underdrains, and other water management and control systems to effectively store or convey water off the reclamation site. Treatment systems, if needed,

will be designed to properly treat any source of potential contamination before discharge. As required, streams and channels will be restored. All water conveyed off-site will meet or exceed any established water quality standards.

/ Temporary and permanent access or access for construction and future maintenance

- » Remote and special access is often required to adequately assess and mitigate hazards associated with abandoned mine lands. This access can be both temporary for the term of the project or permanent for future access and maintenance of the site. RESPEC will maintain high safety standards to protect all personnel, property, and equipment during the assessment and remediation of all areas affected by historical mine operations. This encompasses ensuring safe access for personnel to any area related to mine workings or reclamation, such as portals, highwalls, waste dumps, refuse piles, and underground workings. RESPEC will identify the correct property owners and maintain effective communication with property owners by establishing a positive and open relationship in coordination with WVDEP. Site access will only be established if the proper planning, permissions, and permitting have been completed.

/ Regrading and revegetation

- » After mining operations have ceased, the project and surrounding areas must be reclaimed to reflect pre-mining conditions. This typically includes reclaiming the terrain to match nearby terrain conditions and constructing proper drainage and slopes to maintain stability and establish a vegetation cover. RESPEC will use historical mappings and surveys, as well as updated mappings and surveys, to develop a project-specific regrade design and plan, which will be approved by WVDEP. RESPEC will manage the construction of the regrade designs and plans in coordination with WVDEP.

/ Obtain, maintain, and release all required permits

- » Proper permitting is essential to ensuring the overall success of a project, as it provides protection for the

environment, public safety, and the project owner. Projects can harm the environment, endanger the public, cause delays, and increase costs without proper permitting. RESPEC will work closely with WVDEP and regulatory agencies to identify and complete all required permitting, as determined at the Pre-Design Meeting. These permits may include an NPDES, West Virginia Department of Highways MM-109 encroach permit, Army Corps of Engineers consultation documents, Department of Health Permits, and County Permits. RESPEC will establish and maintain the necessary permits in coordination with the project owner throughout the project, ensuring compliance with environmental and public safety requirements in a timely and efficient manner.

CONSTRUCTION OVERSITE WORK

- / RESPEC will coordinate and manage construction quality assurance/quality control (QA/QC) certification activities related to reclamation work on the projects.
- / RESPEC's project representative will coordinate and manage QA/QC certification of the construction activities related to the reclamation work on the projects. The QA/QC findings will provide RESPEC and WVDEP personnel with a detailed understanding of the project progress and opportunities for improving and optimizing the work on the project.
- / RESPEC will provide a resident project representative/inspector to oversee all in-field work and ensure that the project remains on schedule and is completed in accordance with the approved designs and specifications.
- / Oversight of all in-field work is essential to the overall success of the reclamation projects by ensuring the project is on schedule and all work is completed according to the project designs and specifications. RESPEC will provide resident representation while field work is ongoing to provide oversight of the project.

- / RESPEC will coordinate and manage daily construction activity logs summarizing activities related to project reclamation work.
- / RESPEC's project representative will coordinate and manage daily construction activity logs of the activities related to the reclamation work on the projects. RESPEC will compile contractors' reports and summarize daily construction activities into daily logs. These logs will provide RESPEC and WVDEP personnel with a detailed understanding of the project progress and opportunities for improving and optimizing the work on the project.
- / RESPEC will provide continuous engineering support and services throughout construction to ensure that the designs and plans are implemented correctly, efficiently, and in a timely manner.
- / Continual communication with WVDEP and contractors, along with timely technical support, is the key to the success of this project. This will help ensure that designs and plans are implemented correctly and in a timely and efficient manner. Additionally, engineering support allows the project team to effectively address and manage unforeseen circumstances. RESPEC's engineering staff will provide regular support and be available as needed throughout the full term of the project to ensure its success.

RESPEC'S COMMITMENT

40 years of mine reclamation experience – Having earned four national awards from OSMRE, RESPEC has been the "A Team" for AMR work throughout the U.S. over the past 40 years.

Never say it can't be done – RESPEC has always, and will always, go the extra mile to ensure our work is completed promptly and cost-effectively. We pride ourselves on being flexible in our schedules so that we are available at a moment's notice when a deliverable needs to be created and submitted or when WVDEP or a landowner requests a field investigation.

Litigation-free projects – RESPEC is committed to continuing its history of litigation-free projects, as we have done for more than 100 AML projects.

➤ PROJECT MANAGEMENT – OUR COMMITMENT TO QUALITY AND RESPONSIVENESS



EXPERIENCED PROFESSIONALS

We have assembled a team of experienced professionals who know how to solve mining-related issues and complete projects within time and budget constraints. Our staff can manage unexpected changes to mine-related projects.



SCHEDULE

After determining the schedule, we will set major meetings. This system will provide the RESPEC team with set deliverable dates so that a project will remain on track and meetings will not be rescheduled because of other commitments. The project manager and task leaders will conduct frequent coordination meetings via telecommunication to discuss the project status and goals and share and obtain updated information.



QA/QC

The project manager will establish a QA/QC program specifically tailored to each project. Fundamental features will include using standard operating practices, staff training, and project checklists. The program will include technical reviews applied while preparing designs, calculations, drawings, details, specifications, quantities, cost opinions, reports, and construction documents. The QA/QC documentation will be provided during the design process to illustrate our commitment to high-quality plans and documentation.



COMMUNICATION AND METHOD OF INTERFACE

Communication is critical. The project scope will include a reporting schedule to WVDEP, which will set the minimum. We will routinely communicate via telephone calls, emails, or intermittent progress reports. Our communication philosophy is to be extremely responsive; if we miss a telephone call, we will respond the same day as the voice message.



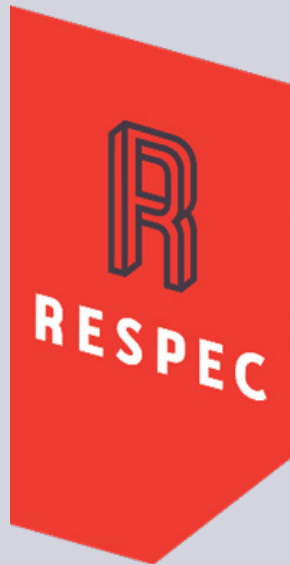
SCOPE AND BUDGET CONTROL

We plan to maintain the schedule and budget control through regular team meetings and status reports. A comprehensive project task schedule will be established at each project start-up to ensure clarity in project flow and benchmarks. These tools are highly effective in communicating the current project status, identifying potential schedule issues, providing a record of project milestones, and reconciling conflicts. RESPEC will use appropriate project management and cost-tracking software (e.g., Microsoft Project, earned value tracking, and BST accounting systems).



CLIENT SATISFACTION

RESPEC's role is to assist WVDEP in completing the project to WVDEP's specifications. Technical and nontechnical project requirements will be addressed to achieve final products that meet WVDEP goals and objectives.



RELEVANT EXPERIENCE

➤ RELEVANT EXPERIENCE

RESPEC has been involved in AML projects for more than 40 years and has completed work in 10 states. With the increased funding provided by IIJA, RESPEC is currently engaged in AML projects in West Virginia, Pennsylvania, Wyoming, New Mexico, Montana, and Colorado.

Our experience spans a wide range of AML-related services, including site investigations, design, permitting, and construction oversight. In addition to AML-specific projects, RESPEC and our professional staff have completed related environmental and engineering projects with similar technical and regulatory components. These efforts have been performed for OSMRE, the Bureau of Land Management, and various private-sector clients across multiple states.



➤ PAST PROJECT EXPERIENCE

BECKLEY SOCCER COMPLEX

Client: WVDEP // Client Contact: Jonathan Holbert // Client Address: 601 57th Street SE, Charleston, WV 25304



At the Beckley Soccer Complex, a popular community hub in southern West Virginia, our team addressed urgent safety and environmental concerns associated with past mining activity by stabilizing subsidence-prone infrastructure and closing multiple hazardous mine portals. The project focused on two critical components: remediating a section of the facility's parking lot that had become compromised by mine spoil-induced subsidence and closing eight nearby mine portals situated along public hiking trails. These efforts supported public safety, maintained site accessibility, and preserved the long-term usability of a widely used recreational area.

Initial assessments revealed a 450-foot-long scarp line and a 3-foot-deep sinkhole within the parking lot, threatening safe access to the complex. While the original mitigation plan involved excavation to bedrock and replacement with compacted lifts, utility conflicts, specifically, the presence of American Electric Power lines, required a revised approach. The design now calls for excavation to 10 feet, targeted grouting of loose spoil through drillholes, placement of woven geogrid, and staged backfill in compacted lifts. This alternative balances structural integrity with existing utility constraints and reflects our team's adaptability to site conditions.

Simultaneously, eight open or draining mine portals were identified along adjacent public trails. Depending on site-specific characteristics, each was scheduled for closure using either dry seals or standard bat gates. These methods align with the WVDEP's emphasis on ensuring public safety and ecological consideration. Our team prepared a formal EA to evaluate the project's potential impacts. The EA was submitted to OSMRE for approval before authorization to proceed, demonstrating our familiarity with AML regulatory protocols and permitting workflows.

An NPDES general permit was also secured, and a project-specific Stormwater Pollution Prevention Plan (SWPPP) was developed to control erosion and stormwater runoff during construction. These permitting components reflect our understanding of the compliance framework under IIJA and the Surface Mining Control and Reclamation Act (SMCRA) and our ability to meet design and environmental documentation deliverables on time.

The design package delivered included stamped construction drawings, technical specifications, bid documents, and cost estimates. Aspects of planning, permitting, geotechnical evaluation, and design were completed with minimal oversight from the client, supported by a multidisciplinary team that mirrors the full-service capabilities sought in the prequalification solicitation. The project reflects the types of subsidence and portal hazards commonly found in AML-impacted areas across West Virginia, making it highly relevant to the current contract.

MACARTHUR SUBSIDENCE PHASE III

Client: WVDEP // Client Contact: Jonathan Holbert // Client Address: 601 57th Street SE, Charleston, WV 25304



The MacArthur Phase III Subsidence project addressed long-term stability risks in a densely developed area of MacArthur, West Virginia, where abandoned underground mine workings extend beneath more than 200 residential properties. The objective was to assess subsidence potential, refine the scope of necessary interventions, and develop targeted mitigation strategies that reduced both physical and administrative impacts on the community.

A key component of the project involved advanced geotechnical modeling using FLAC3D finite element analysis. This approach evaluated the thickness and properties of consolidated overburden above the mine voids. The analysis established that areas with over 80 feet of consolidated overburden posed no surface risk, allowing our team to focus resources on locations with higher subsidence potential. This evidence-based threshold helped prioritize mitigation and eliminated unnecessary interventions, aligning with the WVDEP's cost-effective, risk-informed design goals.



Grout hole spacing was also determined based on overburden thickness, optimizing coverage while minimizing materials and cost. Properties with less than 60 feet of overburden were assigned a 25-foot spacing, while areas between 60 and 80 feet used a 60-foot spacing. This strategy exemplifies the type of site-specific design logic the WVDEP expects from prequalified firms, balancing efficiency, performance, and resource stewardship.

The modeling outcomes significantly reduced the project's construction footprint and streamlined realty coordination. Our team accelerated the public involvement process by narrowing the properties requiring Construction Rights of Entry (CROEs) and

reducing administrative delays. This, in turn, shortened the project timeline and lessened disruption for property owners, which is an important consideration for AML projects in residential settings.

As with all federally supported AML efforts, an EA was required. The EA was completed and submitted to OSMRE for review, a necessary step before authorization to proceed. Our team also secured an NPDES general permit and developed a site-specific SWPPP with detailed erosion and sediment control measures. These efforts reflect our team's understanding of environmental compliance obligations under IIJA and SMCRA.

The final deliverables included construction drawings, technical specifications, bid documents, and a detailed cost estimate. The project demonstrates a clear capacity for delivering subsidence mitigation solutions grounded in technical rigor and designed for real-world application.

CROWN HILL REFUSE, SLIDE, AND DRAINAGE

Client: WVDEP // Client Contact: Jonathan Holbert // Client Address: 601 57th Street SE, Charleston, WV 25304



The Crown Hill Refuse, Slide, and Drainage project addressed an active landslide and multiple open mine portals adjacent to State Route 61, a critical transportation corridor in West Virginia. Triggered by uncontrolled drainage from collapsed and draining mine entries, the slide caused a complete road blockage, prompting immediate action by the West Virginia Department of Highways and a coordinated response with WVDEP. The project combined slope stabilization, drainage control, and portal closure.

To mitigate future failures and preserve roadway integrity, the project team designed a 235-foot-long retaining wall with a maximum height of 18.5 feet. Construction will occur next to State Route 61 and includes detailed traffic control planning. This scope reflects our team's ability to manage complex design and construction coordination along active infrastructure.



The project also involved the closure of seven mine portals using a mix of wet seals, dry seals, and standard bat gates, depending on site-specific drainage and ecological considerations. Approximately 4,250 linear feet of temporary access roads were designed to reach each portal, supporting construction without causing long-term disruption to the site. These activities align with WVDEP's emphasis on controlling drainage, mitigating environmental risk, and reducing hazards to the public.

As with all federally supported AML work, an EA was completed and submitted to OSMRE for approval before construction. Our team also secured an NPDES general permit and prepared a site-specific SWPPP to manage stormwater runoff and sediment during construction. Erosion and sediment control measures were included in the design to meet regulatory requirements under the IIJA.



The final deliverables included construction drawings, technical specifications, bid documents, and a detailed cost estimate. This project is relevant to the current effort because of its scope, permitting requirements, and the presence of vertical openings, a feature prevalent across AML sites in the region. The Crown Hill project demonstrates our team's capacity to respond quickly to emergency conditions, coordinate across agencies, and deliver engineered solutions that meet the WVDEP's safety, compliance, and effectiveness standards.

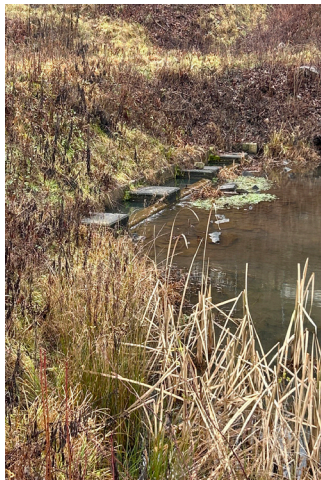
PRICE HILL POND CLEANINGS

Client: WVDEP // Client Contact: Jonathan Holbert // Client Address: 601 57th Street SE, Charleston, WV 25304



The Price Hill Pond Cleanings project focused on maintaining the long-term function of passive treatment systems originally constructed during the 2010–2011 Price Hill Complex AML reclamation efforts. These ponds were designed to facilitate iron settling from mine drainage and required periodic maintenance to preserve their effectiveness. This project reflects a targeted and cost-conscious approach to drainage management.

The original plan called for dewatering each pond, removing accumulated sludge and sediment, and hauling the material to an off-site landfill. However, during the design phase, the projected cost of hauling and disposal proved unfeasible. Working in collaboration with WVDEP, the project team revised the approach to decommission one of the four ponds and repurpose it as a stabilized on-site sludge repository. This adjustment significantly reduced costs while maintaining regulatory compliance and environmental protection.



The revised strategy involved dewatering each pond, treating the sludge with quicklime (calcium oxide) to stabilize the material, and relocating it to the decommissioned pond. To ensure the continued functionality of the passive treatment system, a new conveyance pipe was designed to reroute mine discharge from the decommissioned pond to the next pond in the treatment sequence. This design revision demonstrates an understanding of site hydrology and the need to maintain long-term drainage integrity at AML sites, aligning with the priorities outlined in the prequalification solicitation.



The project required an NPDES general permit and a site-specific SWPPP to manage erosion and sedimentation during construction. An EA was also completed and submitted to OSMRE, consistent with federal permitting requirements. These actions reflect our team's familiarity with both IIJA and SMCRA compliance expectations.

The completed design package included construction drawings, technical specifications, bid documents, and a detailed cost estimate. This project illustrates our team's ability to evaluate existing reclamation features, adapt plans in collaboration with the agency, and implement site-specific solutions that are cost-effective and environmentally responsible. It is relevant to WVDEP's ongoing work, particularly in contexts where drainage infrastructure must be maintained, modified, or replaced to extend the life of prior AML investments.

OSM 16(6036, 6037)101.1 HAWTHORN WEST

Client: Pennsylvania Department of Environmental Protection (PA DEP) // Client Contact: Josh Shaffer



The Hawthorn West project addressed dangerous highwalls and a hazardous water body across a multi-area site, improving both public safety and environmental stability. Divided into eight contractor work areas (Areas A through H), the project combined material regrading, drainage improvements, and utility coordination to mitigate AML hazards in a region with complex site conditions.

Highwall reclamation was performed in Areas A through E and Area H using spoil material located adjacent to each wall. The design for these areas incorporated a calculated 15 percent surplus of cut over fill, developed in coordination with PA DEP. This strategic overcut allowed for optimized material use while reducing haul distances and construction costs. This approach parallels WVDEP's emphasis on efficiency, material balance, and minimizing field oversight through thoughtful, self-sustaining design.

Area G featured a hazardous impounding water body and a highwall, which were addressed using fill from Area F. The fill eliminated the pond's ability to hold water and concurrently mitigated the adjacent highwall, addressing multiple hazards through a single coordinated operation.

The project also required early and sustained coordination with two gas companies because of the presence of active and abandoned gas lines and wells. Each entity was contacted directly to develop mutually agreeable solutions that maintained project momentum while meeting regulatory standards. This kind of utility coordination and responsiveness to site constraints is a key expectation for firms working under the WVDEP's AML program.

OSM 49(1591)101.1 COMMISSIONERS LAKE

Client: PA DEP // Client Contact: John Curley

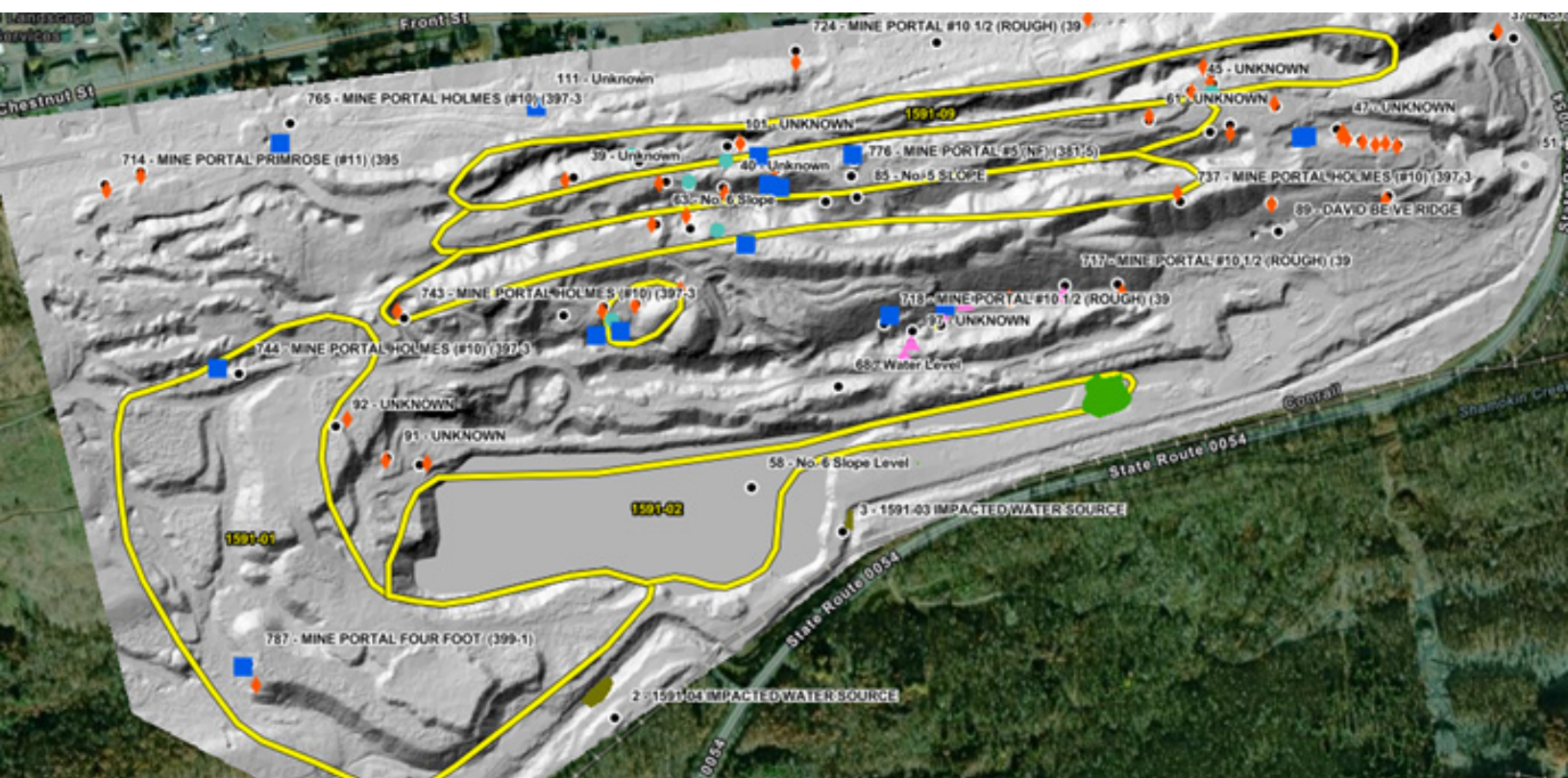
The Commissioners Lake project is one of Pennsylvania's largest and most complex AML reclamation efforts and encompasses more than 240 acres of disturbed land. The site featured a 4,000-foot dangerous highwall, extensive spoil areas, and a hazardous water body known as Commissioners Lake, which reached depths in excess of 140 feet, posing a significant public safety risk.

We conducted a comprehensive assessment of site conditions and AML features to update the AML inventory. Additional investigations included wetland delineations and water quality assessments to support environmental and engineering decisions. Based on these findings, a grading plan was developed involving more than 10 million cubic yards of earthwork.

To meet permitting requirements and maintain open communication, our team coordinated with local municipalities, regulatory agencies, and property owners throughout the project. These efforts supported regulatory compliance and ensured that environmental impacts were considered during project development.

This project is aligned with the objectives of the current contract, as it involved the mitigation of dangerous highwalls, hazardous impoundments, and unstable spoil areas, hazards frequently encountered across AML sites in West Virginia. The work completed at Commissioners Lake reflects the type of large-scale, multidisciplinary reclamation WVDEP expects from prequalified firms.

The completed design package included construction drawings, technical specifications, bid sheets, and an estimated engineer's cost for construction.



OSM 03(4919)101.1 NORTHWEST MILTON

Client: PA DEP // Client Contact: Josh Shaffer

The Northwest Milton project involved designing and permitting a comprehensive AML reclamation effort to address a 1,400-foot dangerous highwall and a 9-acre spoil pile. The project was developed in close coordination with PA DEP to ensure regulatory compliance and cost-effective hazard mitigation.

A grading plan using available spoil material was developed to backfill the highwall at a maximum 3:1 (vertical:horizontal) slope, balancing safety, long-term stability, and material efficiency. The design also incorporated a proposed wetland area, which required detailed planning to support ecological restoration and maintain hydrologic function. Project activities included wetland delineation, mitigation planning, utility verification, and geotechnical assessments to support durable site performance.

Coordination with regulatory agencies, utility providers, and local stakeholders was critical to securing permits and maintaining clear communication throughout the design process. Effective erosion and sediment controls were developed to manage construction-phase runoff and ensure compliance with a Chapter 102 General NPDES permit.

This project reflects the multidisciplinary approach required to address the AML challenges outlined in the WVDEP scope of work. By combining effective hazard mitigation with environmental sensitivity and regulatory coordination, the project team delivered a solution consistent with the agency's reclamation priorities.

The completed design package included construction drawings, technical specifications, bid sheets, and an engineer's cost estimate for construction.



OSM 10(3771)101.1 SHERWIN NORTH II

Client: PA DEP // Client Contact: Steve Golembiewski



This project encompassed the reclamation of more than 2,000 feet of 40- to 60-foot highwall. Other associated problems included one open discharging portal, unstable outslope spoil, areas devoid of vegetation, and a high volume of AMD. The AMD had potentially degraded the local potable water supply. The area was extensively deep mined, which posed further problems addressing the AMD. The state also decided to reclaim the area as wildlife habitat based on the present site condition.

To reroute the AMD, RESPEC designed an underdrain system to direct the water to several natural drainage channels. The portal was closed with a wet seal to provide positive drainage directed to one of the natural channels. The unstable spoil was removed and used to backfill the highwall. In areas where backfill material was unavailable, the highwall was blasted down. For revegetation, a seed mix was used that supports wildlife and controls erosion. Many areas on-bench had naturally revegetated to pine and hardwood thickets. When possible, these areas were left undisturbed and remained part of the final reclamation plan.



Water supply degradation was not determined conclusively to be caused by AMD. However, because the evidence pointed to AMD as a cause, a full water supply study was conducted. Field investigations encompassed more water sampling of resident wells, Beaver Creek, and mine discharges in the Beaver Creek watershed. An adjacent unmined watershed was also evaluated, and water sampling was conducted as a check of probable pre-mine water quality. A cation/anion analysis was also performed in the Beaver Creek watershed to isolate the main contaminant of the drinking water supply. The study entailed a cost analysis of possible water supply options, including cleanup of the existing water supplies, drilling new wells, or extending existing county water lines to all impacted residents.

CRAFTS RUN MAINTENANCE

Client: WVDEP // Client Contact: Troy Schell



The Crafts Run Maintenance project involved a multifaceted approach to mitigate a range of AML hazards and restore hydrologic function, safety, and stability across the site. Key features included a dangerous impoundment, approximately 1,800 linear feet of clogged stream, 2 acres of clogged stream lands, two open portals, roughly 100 feet of dangerous highwall, and a 2-acre spoil area. Our team developed a coordinated reclamation plan that reconstructed drainage flow paths down the hillside, incorporated underdrains and conveyance systems to manage seepage, and included new seals to close the portals. Existing wet seals were excavated and replaced, and spoil material was used to backfill the highwall to improve stability.

To address acid mine drainage in the clogged stream lands, we designed a treatment method involving the installation of a 6-inch limestone layer. The project also required modifying existing access roads and replacing culverts to accommodate new stormwater flow paths. A stormwater management analysis was conducted to ensure the proper sizing of these culverts. Erosion and sediment controls were designed in compliance with the requirements of a General NPDES stormwater construction permit to protect downstream water quality during construction.

This project shares many similarities with the challenges outlined in the WVDEP contract, particularly in addressing diverse AML features in a single, coordinated effort. The integrated design approach reflects WVDEP's emphasis on hazard elimination, hydrologic restoration, and regulatory compliance.

The completed design package will include construction drawings, technical specifications, bid sheets, and an engineer's cost estimate for construction.

WADES RUN DANGEROUS EMBANKMENT PHASE II

Client: WVDEP // Client Contact: Troy Schell

The Wades Run Dangerous Embankment Phase II project is a follow-up to an emergency response effort completed in 2019. The original issue involved a refuse fill constructed in a hollow containing a 60-inch concrete culvert located 30 feet below the surface and stretching 100 feet in length. Over time, sections of the culvert at the outlet end collapsed, triggering erosion that led to a vertical failure of approximately 60 feet in the refuse material. As an interim measure, jersey barriers and fencing were installed to restrict public access, but the site remained unstable and required a long-term solution.

Our design addresses the continued instability by removing the refuse material in controlled lifts and relocating it to a new refuse fill site with stable, level ground. The stream will be reconstructed once the refuse is removed to restore its natural flow path. In addition to these core activities, the project includes the removal and proper off-site disposal of hazardous equipment and facilities located within the disturbed area.

This project supports the goals of the WVDEP contract by resolving multiple legacy mine-related hazards through an integrated design approach. The combination of refuse stabilization, stream restoration, and hazard mitigation contributes to long-term landform stability, improved drainage, and enhanced public safety.

The final design package will include construction drawings, technical specifications, bid sheets, and an engineer's cost estimate for construction.



➤ ADDITIONAL PROJECT EXPERIENCE IN AML RECLAMATION AND REMEDIATION

The following is a partial list of AML projects for state or federal agencies completed by RESPEC or RESPEC staff. No listing is included of similar projects completed for private clients.

Bureau of Land Management (BLM):

- / War Eagle Mountain Project

Colorado DMRS:

- / Conger Mine
- / Marshall Water Phase I and Phase II
- / Walker Mine
- / Marshal Coal Fire Mitigation
- / Corely Mine
- / New Dominion
- / AY Minnie Crib Wall
- / USV Refuse Mitigation

Kentucky Division of AML:

- / Buck Branch Reclamation Project
- / Mare Creek Refuse Reclamation Project
- / Ridge Top Reclamation Project
- / Williams Branch Reclamation Project

Maryland Bureau of Mines:

- / Midlothian Acid Mine Drainage Project
- / Franklin Hill Slide Project
- / Shallmar Refuse Project
- / Vindex Refuse Project
- / Bartlett Hill Landslide Project
- / Frostburg Subsidence Reclamation Project

Ohio AML:

- / Abandoned Coal Mine Reforestation Projects

Oklahoma Conservation Commission:

- / Horsepen Creek Reclamation Project
- / Adams Creek North Reclamation Project

Montana DEQ, Abandoned Mine Section (AMS):

- / Wibaux County Mines Project

Utah Division of Oil, Gas and Mining:

- / Crawford Mountains AML Study
- / Brazier Demonstration Project
- / Molly's Canyon Project
- / Arickaree Project
- / Coal Hollow Project
- / Trespass Coal Mine Closure Project
- / Horse Canyon Coal Mine Fire Project
- / Silver Reef Project

Virginia Department of Natural Resources:

- / Wolfpen Gob Pile Project
- / Roaring Fork Landslide Project
- / Dorchester Drainage Project
- / Arno Sedimentation Project
- / Dorchester Drainage Project 2

Office of Surface Mining – Washington State:

- / Wilkeson AML Investigations
- / Buckley No. 2 Mine Reclamation
- / Wingate Hill Mine Reclamation
- / Van Zant Abandoned Mine Investigation
- / Hamilton/Minkler Lake Mine Reclamation
- / Spiketon Emergency Reclamation Project
- / Pack/Dupuis Reclamation Project

Pennsylvania Department of Environmental Protection:

- / Hawthorne West

- / Northwest Milton
- / Sherwin North II
- / Commissioners Lake
- / No. 6 Shaft Evaluation
- / Eddy Creek

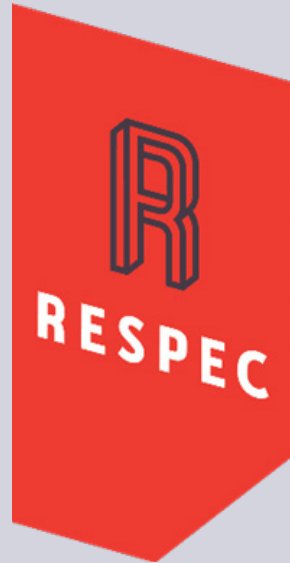
West Virginia Division of Environmental Protection:

- / Beckley Soccer Complex
- / MacArthur Subsidence Phase III
- / Crown Hill Refuse, Slides & Drainage
- / Price Hill Pond Cleanings
- / Morris Creek Water Treatment
- / Summerlee AMD Treatment
- / Beech Bottom Highwall
- / Bethany (Haizlett) DS, Highwall and AMD
- / Buffalo Creek Highwall
- / Craft's Run Maintenance
- / Logan Run Highwall
- / Richard Mine Drainage Facility
- / Wade's Run Dangerous Embankment Phase II

Wyoming DEQ:

- / AML 10C - Horse Creek Limestone Mine
- / AML 10C - Rattlesnake Hills Quarry
- / ML 10C - Pathfinder Quarry
- / AML 17F - Copper Mountain Mine Reclamation
- / AML 17F - Kirwin Abandoned Mine Stabilization
- / AML 17F - Double Dee Abandoned Mine Stabilization
- / AML 17F - Seahorn-Ramsey Coal Mine Reclamation
- / AML 17F - Little Mo-Arrowhead Uranium Mine Reclamation

- / AML 17F - Gebo Coal Mine Reclamation Phase I and Phase II
- / AML 17J - Northwest Wyoming Abandoned Coal Mine Reclamation
- / AML 17J - Hidden Waters Mine Sites
- / AML 17J - Kleenburn Coal Mine Project
- / AML 17J - Plachek Mine Mitigation Design
- / AML 17J - Storm Kine Coal Mine Sinkhole Remediation
- / AML 17J - Carney Mine Sinkhole Remediation
- / AML 17J - Record-Eveland Mine Reclamation
- / AML 17J - Dietz Coal Mine Subsidence Remediation
- / AML 61-P3 - Stein Mine Remediation Project
- / AML 66-NC - Wicker Baldwin and Alray Uranium Mine Reclamation Project
- / AML 67-NC - Layland Canyon Mine
- / AML 67-NC - Leefe Mine - Twin Creek Bridge Project
- / AML 67-NC - Paris Lode and Leighton-Gentry Safeguarding Project
- / AML 67-NC - Lewiston District Safeguarding Project
- / AML 68-NC - Gold Reef Tunnel Safeguarding Project
- / AML 68-NC - Hoodoo Tip Top Safeguarding Project



AVAILABLE RESOURCES

> CURRENT STAFFING

The summary organizational chart below illustrates the RESPEC project team's expertise grouped into seven general qualification areas relevant to this EOI. The first staff member listed in each category is expected to serve as the team leader. This list is not exhaustive, and the staffing composition may be adjusted to meet the specific requirements of each project.



ENVIRONMENTAL



SURVEY



GEOTECHNICAL



RECLAMATION



HYDROLOGY



AMD



CONSTRUCTION
MANAGEMENT

The general qualification categories are described as follows:

ENVIRONMENTAL (federal and state), compliance and permitting, closure support, and protection

SURVEY land services, mapping, drones, site investigation, public interface, and remote scanning

GEOTECHNICAL engineering, slope stability, landslide mitigation, grouting, explosives, bulkheads, and subsidence

RECLAMATION, hazard classification and remediation, mitigation design, process optimization

HYDROLOGY modeling, surface waters management, groundwater management and stream restoration

AMD geochemistry, wastewater characterization, encapsulation design, and water treatment

CONSTRUCTION MANAGEMENT plan and design execution, data management, planning and scheduling, and safety



KEY PERSONNEL

	Experience in West Virginia	Years of Experience	Environmental Assessments	EROE / CROE	Surveying	Geotechnical Drilling	Portals / Dangerous Impoundment Closures	Dangerous Highwalls	Dangerous Piles & Embankments	Water Quality	Acid Mine Drainage (AMD) Remediation	Stormwater Management / Erosion Control	Construction Inspection	Water Lines
Dustin Morin	✓	24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jesse Hatter, PE	✓	15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Whitney Faulkner, PE	✓	23	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jake Stephens, PE	✓	15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ryan Hall, PE	✓	6			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
David Purkey	✓	30		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lauren Pennington	✓	4	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sharon Arritea Ruiz	✓	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Aaron Strickland	✓	24											✓	
Terry Schmidt, PE	✓	36			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Gerry Bunk, PLS	✓	27		✓										
Karen Brady, PE		24												✓

RESPEC has a substantial number of staff with the expertise required to complete AML projects.

We believe the success of any project depends on responsiveness and communication with the client. To facilitate this, RESPEC has established a dedicated sector within our Mining & Energy business unit that focuses solely on AML reclamation projects throughout the United States. This multidisciplinary team, spanning multiple states, is committed to finding smart, innovative, and cost-effective solutions for hazards associated with AMLs. To support this sector and handle additional AML projects in West Virginia, RESPEC has hired new employees specifically in West Virginia and our Lexington office. With the support of senior employees in Lexington and other offices, RESPEC has a substantial number of staff members with the expertise to successfully complete AML projects.

Our team has the capacity and talent to meet the requirements of the EOI. With an adjustable backlog of active and future projects, as well as a versatile and adaptable workforce, RESPEC can effectively manage projects and workload to deliver high-quality work within the specified timeframe.

Brief biographies are included in the following pages for our project managers, team leaders, and potential team leaders. Resumes for our professional staff are included in Appendix B, and supporting licenses, certifications, and degrees are included in Appendix C.

AVAILABLE RESOURCES



TECHNICAL/MANAGEMENT STAFF

RESPEC's key personnel possess the necessary expertise, and our project team has a proven track record of successful collaboration. With our experience on similar projects, we are confident in our ability to carry out all the required activities for these projects.

The number of employees with the required expertise enables us to quickly expand our team or provide additional support as needed.

RESPEC has developed a collaborative working system for seamless file sharing and accessibility across all offices. The system has enabled us to successfully complete large projects during the pandemic using staff from various locations. As a result, our entire staff is available company-wide, ensuring efficient project execution.

ADMINISTRATIVE STAFF

RESPEC uses advanced software to track employee time and project expenses while generating accurate invoices. As with our technical staff, clerical and support staff, such as AutoCAD technicians, are routinely and efficiently shared between offices.



STAFF BIOGRAPHIES



DUSTIN MORIN **PRINCIPAL-IN-CHARGE**

Education: MS in Biology, BS in Biology // **Experience:** 20 years

Dustin Morin brings more than 20 years of experience in AML reclamation, environmental assessment, and public-sector program leadership. He has managed and overseen projects involving portal closures, highwall stabilization, coal refuse fires, and large-scale site restoration in urban, rural, and environmentally sensitive areas. Dustin has directed full-lifecycle AML projects, from site investigation and hazard prioritization to design, permitting, construction oversight, and post-reclamation monitoring. His work emphasizes public safety, environmental improvement, and long-term land reuse, often integrating amenities such as trails, lakes, and parks. His leadership on AML projects has earned national recognition, including multiple OSMRE Small Project Awards.

Dustin's background includes leading Alabama's Mining and Reclamation Division, where he managed the AML program, mine safety, and permitting activities. He has also served on national AML committees and as the National Association of Abandoned Mine Lands Program president. A trained biologist with NEPA and endangered species experience, he routinely consults with SHPO, USFWS, and the U.S. Environmental Protection Agency (EPA) to ensure environmental compliance. His strength in stakeholder coordination, regulatory alignment, and interdisciplinary management positions him to guide time-sensitive reclamation efforts with precision and accountability.

KEY STRENGTHS

- » Comprehensive Project Leadership
- » Environmental Regulatory Expertise
- » National Level Leadership and Recognition



ENVIRONMENTAL



GEOTECHNICAL



RECLAMATION



CONSTRUCTION
MANAGEMENT



JESSE HATTER, PE **PROJECT MANAGER**

Education: BS in Mining Engineering // **Experience:** 15 years

Jesse Hatter is a licensed professional engineer in West Virginia with 15 years of experience in AML reclamation, civil engineering, and environmental compliance. He has successfully managed a range of AML projects for WVDEP and PA DEP, addressing hazards such as highwalls, subsidence areas, mine portals, and AMD. His work spans the full project lifecycle, from initial site investigations and permitting to design development, bidding, and construction oversight. Jesse brings expertise in geotechnical coordination, hydrologic modeling, and regulatory compliance, including NPDES permits and coordination with agencies such as SHPO, USFWS, and USACE.

Jesse's background includes experience in stakeholder coordination, realty research, and preparation of bid-ready construction packages under IIJA funding requirements. He is proficient in GIS data capture and field documentation and has led large-scale reclamation projects involving multi-million cubic yard earthwork. His proactive approach to scheduling, reporting, and communication helps ensure projects stay on track with minimal oversight. Jesse's ability to lead multidisciplinary teams and deliver practical, sustainable design solutions makes him a strong contributor to AML reclamation efforts across the region.

LICENSED STATES

Professional Engineer in
WV, KY, and VA

KEY STRENGTHS

- » Project Management
- » AML Reclamation
- » Leadership



ENVIRONMENTAL



HYDROLOGY



RECLAMATION



SURVEY



LICENSED STATES

Professional Engineer in
WV, PA, KY, IN, OH, IL, OR

KEY STRENGTHS

- » AML Reclamation
- » Regulatory and Permitting Expertise
- » Project Management



ENVIRONMENTAL



HYDROLOGY



RECLAMATION



AMD

WHITNEY FAULKNER, PE **PROJECT MANAGER**

Education: BS in Civil Engineering // **Experience:** 22 years

Whitney Faulkner is a licensed professional engineer in West Virginia with more than two decades of experience in civil engineering, mine permitting, and AML reclamation. Her work includes design and management of AML projects across West Virginia and Pennsylvania involving portal closures, subsidence mitigation, landslide stabilization, and AMD controls. She has prepared construction documents, environmental assessments, NPDES permits, and realty agreements for projects ranging from public parks to residential areas. Whitney's experience includes coordination with state and federal agencies, field investigation, drilling and grouting plans, and modeling subsurface conditions to protect existing structures and infrastructure.

Earlier in her career, Whitney spent 9 years with the Kentucky DNR reviewing mine permit applications involving coal waste structures, slurry impoundments, and sediment control. She brings strong expertise in regulatory compliance, stormwater modeling, and multi-agency permitting, including USACE and SMCRA processes. Her ability to manage large multidisciplinary teams and complex permitting efforts is supported by strong technical skills in AutoCAD, ArcMAP, SEDCAD, and FLAC3D. Whitney's practical approach and regulatory insight help ensure timely, compliant, and cost-effective project delivery.

Whitney's unique skills as a project manager, knowledge of mining and its hazards, and understanding of state government will allow her to effectively lead the West Virginia AML projects.

ACCOLADES

"I'm honored to have had the opportunity to meet all of you through the years. You all are the best and make my job easier and with less stress."

– Mike Sharp, Alden Resources



JAKE STEPHENS, PE ASSISTANT PROJECT MANAGER

Education: BS in Mining Engineering // **Experience:** 15 years

Jake Stephens is a mining engineer with 15 years of experience in project management, engineering design and review, construction management, and risk consulting. He has led or supported reclamation efforts across West Virginia and Pennsylvania with AML hazards, including subsidence mitigation, highwall reclamation, mine portal closure, HWB mitigation, and passive AMD treatment system evaluation and design. Jake has experience with the full life cycle of projects from project identification and funding to project closeout, while he brings specialized skills in AML feature identification, environmental/regulatory compliance (including environmental assessments and permitting), and construction oversight. His background includes both public- and private-sector work, and he holds Professional Engineering certifications in KY and WV and certifications in underground and surface coal mining. Jake's hands-on field experience and technical rigor support his ability to deliver practical, compliant solutions on complex AML sites.

LICENSED STATES

Professional Engineer in
WV, KY

KEY STRENGTHS

- » Project Management
- » Project Design and Design Review
- » Environmental Compliance
- » Construction Oversight



ENVIRONMENTAL



HYDROLOGY



RECLAMATION



AMD



RYAN HALL, PE PROJECT ENGINEER

Education: BS in Biosystems and Agricultural Engineering // **Experience:** 6 years

Ryan Hall is a geotechnical engineer with hands-on experience supporting AML projects in West Virginia and Pennsylvania. His work includes subsurface investigations, highwall stabilization design, hydrologic support, and coordination with WVDEP and PA DEP. Ryan has developed drilling plans, conducted field evaluations, and analyzed soil samples to inform design recommendations for complex reclamation sites, including Crafts Run, Bethany Highwall, and Logan Run. He is ICC-certified in special inspections and has managed inspection teams on large construction sites. Ryan's communication skills and technical background allow him to serve as an effective liaison between design teams, contractors, and agencies, ensuring clear documentation, safe execution, and alignment with regulatory requirements.

LICENSED STATE

Professional Engineer in
KY

KEY STRENGTHS

- » Geotechnical and Field Investigation
- » AML Inventory
- » AML Reclamation



ENVIRONMENTAL



HYDROLOGY



RECLAMATION



LICENSED STATE

Engineering Intern in WV

KEY STRENGTHS

- » Drainage solutions and hydrology
- » Earthwork stabilization
- » Groundwater solutions
- » Slope stability
- » Reinforced concrete design
- » Site design
- » Other aspects of geotechnical and structural engineering



ENVIRONMENTAL



HYDROLOGY



RECLAMATION



GEOTECHNICAL

DAVID PURKEY, PE CIVIL ENGINEER

Education: BS in Mining Engineering // **Experience:** 30 years

David Purkey is a civil engineer with more than three decades of experience in slope stability, drainage design, landslide mitigation, and AML reclamation. He has led engineering and permitting for dozens of WVDEP AML projects, including Piney Creek, Sovern Run, and Crafts Run. He has developed full plan and specification packages for highwall stabilization, stream restoration, mine seals, and waterline feasibility. His work includes managing earthwork projects exceeding 2 million cubic yards and conducting over 2,400 right-of-way reviews. David's practical engineering solutions have prevented structural failures, reduced costs, and improved safety across complex terrain in West Virginia, Pennsylvania, and Ohio.



KEY STRENGTHS

- » Environmental permitting
- » AML Reclamation
- » Environmental Assessments



ENVIRONMENTAL



HYDROLOGY



RECLAMATION

LAUREN PENNINGTON PROJECT ENGINEER

Education: BS in Mining Engineering // **Experience:** 4 years

Lauren Pennington has experience with environmental permitting, reclamation design, feasibility and due diligence studies, and critical minerals. She has designed numerous drainage control plans for mines throughout Kentucky, mitigation plans for AMLs, and worked on projects focused on extracting rare earth elements from coal and coal by-products. Work for these projects includes running radio frequency identification tracer tests on heavy media cyclones, setting up full plant circuit tests, and comparing stack sizers and flotation devices. Lauren has worked with the Kentucky Department of Fish and Wildlife Resources to review and summarize existing stream and wetland mitigation plans and monitor the sites after construction. She also has experience with AutoCAD Map 3D, Carlson, Civil 3D, Maptek Vulcan, SEDCAD, AggFlow, and AMD Treat.



SHARON ARRIETA RUIZ **PROJECT ENGINEER**

Education: MS in Mining Engineering and Management, BS in Mining and Metallurgical Engineering // **Experience:** 7 years

Sharon Arrieta Ruiz is a mining engineer with experience supporting AML reclamation projects in West Virginia and Pennsylvania, including property research, right-of-entry coordination, and environmental permitting. She has contributed to realty and landowner coordination for WVDEP's MacArthur Subsidence Phase III project. She assisted with permitting and site feature documentation for Sherwin North II. She conducted AML feature identification and Abandoned Mine Land Inventory System update for Commissioner's Lake. Sharon's academic focus on evaluating renewable energy installation on previously mined lands reflects her commitment to sustainable post-reclamation use. She brings strong technical skills in Vulcan, Deswik.CAD, AutoCAD, and Power BI, and is fluent in Spanish and English. Her analytical mindset and field coordination experience support efficient project execution.

KEY STRENGTHS

- » Sustainable post-reclamation use
- » Data-driven decision-making
- » Resource optimization strategies
- » Attention to detail



ENVIRONMENTAL



RECLAMATION



AMD



AARON STRICKLAND **CONSTRUCTION INSPECTION/CONSTRUCTION MANAGEMENT**

Education: BA in History and Religious Studies // **Experience:** 20 years

Aaron Strickland is a project manager with more than 20 years of experience in mining, civil site construction, and heavy excavation, including 15 years in the oil and gas industry. He has managed more than 100 civil construction projects involving well pad development, slope stabilization, erosion and sediment control, stormwater system installation, and road improvements across West Virginia, Pennsylvania, and Ohio. Aaron has performed slope stability assessments, compaction testing, aquifer evaluations, and geotechnical investigations to ensure construction quality and environmental compliance. He is a Qualified Stormwater Manager and OSHA-30 certified, with a strong track record of safe, compliant field execution. His hands-on approach supports practical, timely reclamation outcomes.

CERTIFICATIONS

EQT Enviro H&S Upstream Test, EQT E&S Compliance Program, Spill Policy SOP Training, PEC Safeland Orientation, OSHA-30 Construction Safety & Health, EnviroCert International, Inc. – Qualified Stormwater Manager

EXPERTISE

- » Construction management services
- » Project leadership and safety



CONSTRUCTION
MANAGEMENT



LICENSED STATES

Professional Engineer in
MD, NC, OH, PA, TN, VA

KEY STRENGTHS

- » Project management
- » Regional experience
- » Construction services



ENVIRONMENTAL



HYDROLOGY



RECLAMATION



GEOTECHNICAL

TERRY SCHMIDT, PE ASSISTANT PROJECT MANAGER/EXPLOSIVE ENGINEER

Education: MS in Mining Engineering, BS in Mining Engineering // **Experience:** 35 years

Terry Schmidt is a mining engineer with more than 35 years of experience in mine facility design, permitting, water treatment, and reclamation. He has led large-scale AML and mining-related projects across the eastern U.S., including passive and active AMD treatment systems, highwall stabilization, and long-term water balance modeling. Terry has managed engineering for permit packages, supported litigation and compliance strategies, and presented technical findings at national reclamation conferences. His leadership in transforming mine-impacted lands and decades of work with NPDES systems and SMCRA permitting reflect deep knowledge of regulatory frameworks. He is licensed in six states and MSHA-certified for field operations.



LICENSED STATES

Professional Land Surveyor
in PA

KEY STRENGTHS

- » Survey project management
- » Attention to detail
- » Strong problem-solving skills
- » Regional expertise



SURVEY

GARRY BUNK, PLS PROFESSIONAL LAND SURVEYOR

Education: BS in Broadcasting // **Experience:** 27 years

Surveying will be led by Garry Bunk, P.L.S., who brings more than 26 years of experience in boundary resolution, topographic mapping, construction stakeout, and geodetic control establishment. As Chief of Surveys for Musser Engineering, a Division of RESPEC, Garry leads surveying projects across Pennsylvania and the surrounding Appalachian region, including mining, infrastructure, and development sites. His experience with subsurface conditions, historical property lines, and the documentation challenges in AML-rich areas positions him to support West Virginia's complex reclamation and permitting needs with precision and reliability.



KAREN BRADY, PE **UTILITY ENGINEER**

Education: BS in Civil Engineering // **Experience:** 24 years

Karen Brady brings advanced expertise in utility system design, analysis, and water and wastewater infrastructure coordination. Her technical work includes hydraulic and thermal modeling, utility conflict resolution, and system realignments in constrained environments. She develops clear, constructible designs that account for permitting requirements, spatial constraints, and long-term operability. Karen is experienced in collaborating across disciplines to deliver practical solutions on projects with complex phasing or regulatory oversight. Her ability to translate technical requirements into field-ready plans supports reliable, compliant utility upgrades that minimize disruption, meet environmental goals, and integrate seamlessly with existing infrastructure.

LICENSED STATES

Professional Engineer
in AK, MT, SD, WY, and
Environmental Engineer
in AK

KEY STRENGTHS

- » Waterlines design
- » Utility system design
- » Analysis
- » Permitting requirements





> SURVEYING/MAPPING

A solid design starts with a clear plan. Using detailed and accurate surveys and images to develop a clear renderings plan makes the plan come to life. RESPEC has extensive experience with topographic mapping. We also have comprehensive and robust experience using drones of all types and sizes at mines. From volumetric calculations to orthomosaics and 3D modeling, our drones can supplement, replace, and acquire new data.

Our design team includes a West Virginia–licensed professional surveyor. The surveyor is responsible for property line surveys, deed research and plotting, establishment of control points, and oversight of topographic mapping. RESPEC’s surveyors are MSHA-certified and have years of experience. Drone pilots are at the forefront of survey and mapping-grade data collection. RESPEC’s surveys are certified by the Federal Aviation Administration Part 107, allowing for the commercial use of drones in survey applications. Drones can obtain orthomosaics, point clouds, and contours to support—or replace—data collected by traditional survey methods. This data can then be combined for powerful visualization creation and modeling.

Drone use at inactive mine sites makes it possible to reach the impossible-to-reach areas, allowing large expanses to be mapped and processed with improved safety. We use the latest technology to process and incorporate data into AutoCAD and ArcGIS formats.

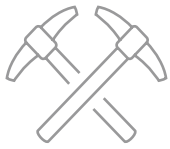
Among the benefits of using drones for surveying and mapping are the cost and time saved compared to traditional methods, which means data are collected more safely in rugged terrain. Also, high-resolution imagery and 3D

models are generated for improved decision-making.

Computing volume changes in stockpiles, material sites, or mining operations can be tedious and potentially dangerous. With drones, we can measure any shape or size object with an accuracy equivalent to traditional surveying methods. Any type of material can be measured, including aggregates, biomass, minerals, and even snow.

In addition to calculating volumes, drones allow our team to collect high-resolution photography of the site that can be applied in generating 3D renderings and uploaded and implemented into the data modeling process. Captured digital photos complement the survey data to visually show site changes over time to facilitate interpretation and decision-making.

RESPEC is also experienced with the mapping and scanning both accessible and inaccessible underground void areas, including historical abandoned mines. Remote scanning equipment is typically deployed down a drillhole into void areas to collect 3D point cloud data and map out void areas. This deployment method allows all field personnel to remain safely on the surface while collecting essential data. The 3D scan data are tied to the site’s coordinate system, allowing for accurate mapping of the void areas. Once the voids are scanned and mapped, the data can be used for a detailed geotechnical and stability analysis, development of reclamation alternatives, and determining the optimal reclamation methods, among other applications.



➤ DRILLING/GEOTECHNICAL

RESPEC's experience in geotechnical slope stability analysis and stable slope designs for mines spans a wide variety of project types in highly variable geologic conditions. The problems associated with stability are diverse and often focus on the interaction between manufactured waste placement and the natural environment. RESPEC provides comprehensive field and analytical services to assist in defining safe operating conditions. RESPEC designs, fabricates, and installs robust extensometer systems to monitor potentially unstable slopes. The custom extensometer system can continuously monitor slope movement at multiple locations and communicate wirelessly to monitoring sites. Slope stability analyses for reclaimed sites is performed using 2D finite element analysis and 2D limit equilibrium software.

RESPEC personnel perform ground-surface subsidence studies to calculate surface displacements, strains, and tilts over conventional mines and solution-mined caverns. We use these studies to help delineate regions of mine-induced subsidence, establish adequate standoff distances, sequence mine development to minimize the effects on the surface caused by underground mining, and maximize available reserves. These data have also been used to identify surface benchmark locations where comparing measured and predicted subsidence patterns reveals the most information about the actual mine and overburden behavior.

Drilling is used to locate features such as mine voids and fracturing and to obtain rock and soil samples. RESPEC designs and manages geotechnical and core-drilling investigations for USACE and multimillion-dollar underground mine reclamation and abandonment projects for OSMRE and private clients to generate reserve estimates and create geologic models. RESPEC is experienced with numerous forms of subsurface exploration, including hollow-stem augers, solid-stem augers, direct push, mud rotary, air rotary, diamond coring, and sonic drilling.

RESPEC intends to subcontract drilling services to NGE. NGE has a history of providing drilling and geotechnical services to multiple clients and industries, including WVDEP and the Department of Highways. Expertise includes core drilling, soils drilling, soil testing, piezometers, and well installations. NGE is also certified as a Woman Business Enterprise, Disadvantaged Business Enterprise, and an Economically Disadvantaged Woman-Owned Small Business.

The background of the page features several thin, light gray lines that intersect to form a series of overlapping, irregular polygons. These lines are primarily located on the left and bottom edges, creating a modern, architectural feel.

APPENDIX A.

AML CONSULTANT QUALIFICATION QUESTIONNAIRE & AML RELATED PROJECT EXPERIENCE MATRIX

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE				Attachment "A"	
PROJECT NAME EOI – AML Engineering Design Services		DATE (DAY, MONTH, YEAR) 08/20/2025		FEIN 83-2898293	
1. FIRM NAME RESPEC Company, LLC		2. HOME OFFICE BUSINESS ADDRESS 3824 Jet Drive, Rapid City, South Dakota, 57703		3. FORMER FIRM NAME RE/SPEC Inc.	
4. HOME OFFICE TELEPHONE 605.394.6400	5. ESTABLISHED (YEAR) 1969	6. TYPE OWNERSHIP <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Joint-Venture		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 146 East Third Street, Lexington, Kentucky 40508					
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Jason Love – President/CEO; Phil Welling – CFO; Jay Nopola – Senior Vice President, Dustin Morin – Market Sector Lead			8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS Whitney Faulker: Project Manager 773.218.5866, Jesse Hatter; Project Manager 606.669.2633		
9. PERSONNEL BY DISCIPLINE					
<u>75</u> ADMINISTRATIVE <u>1</u> ARCHITECTS <u>6</u> BIOLOGIST <u>15</u> CADD OPERATORS <u>2</u> CHEMICAL ENGINEERS <u>101</u> CIVIL ENGINEERS <u>7</u> CONSTRUCTION INSPECTORS DESIGNERS DRAFTSMEN	<u>2</u> ECOLOGISTS ECONOMISTS <u>14</u> ELECTRICAL ENGINEERS ENVIRONMENTALISTS ESTIMATORS <u>45</u> GEOLOGISTS HISTORIANS <u>7</u> HYDROLOGISTS	LANDSCAPE ARCHITECTS <u>38</u> MECHANICAL ENGINEERS <u>46</u> MINING ENGINEERS PHOTOGRAMMETRISTS <u>5</u> PLANNERS: URBAN/REGIONAL SANITARY ENGINEERS <u>1</u> SOILS ENGINEERS SPECIFICATION WRITERS	<u>14</u> STRUCTURAL ENGINEERS <u>6</u> SURVEYORS TRAFFIC ENGINEERS <u>75</u> COMPUTER PROGRAMMERS <u>37</u> ENVIRONMENTAL ENGINEER / SCIENTIST <u>7</u> GIS SPECIALIST <u>17</u> WATER RESOURCE ENGINEER <u>85</u> OTHER <u>606</u> TOTAL PERSONNEL		
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>5</u>					
*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.					

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE Attachment "A"

PROJECT NAME EOI – AML Engineering Design Services		DATE (DAY, MONTH, YEAR) 08/20/2025		FEIN 55-0764054	
1. FIRM NAME New River Engineers, Inc.		2. HOME OFFICE BUSINESS ADDRESS 501 Eagle Mountain Road, Charleston, WV 25311-1045		3. FORMER FIRM NAME S&S Engineers, Inc.	
4. HOME OFFICE TELEPHONE 304.342.7168	5. ESTABLISHED (YEAR) 1980	6. TYPE OWNERSHIP <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Joint-Venture		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE New River Engineers, Inc., 202 School Drive, Shrewsbury, WV 25015 / 304.595.3290 / Chris Burford / 34 Personnel					
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Joshua Cook, PE, PMP – President; Eric Hartwell – VP; Chis Burford – Senior Project Manager			8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS		
9. PERSONNEL BY DISCIPLINE					
<u>5</u> ADMINISTRATIVE <u>2</u> ARCHITECTS _____ BIOLOGIST <u>8</u> CADD OPERATORS _____ CHEMICAL ENGINEERS <u>8</u> CIVIL ENGINEERS <u>1</u> CONSTRUCTION INSPECTORS _____ DESIGNERS _____ DRAFTSMEN	_____ ECOLOGISTS _____ ECONOMISTS _____ ELECTRICAL ENGINEERS _____ ENVIRONMENTALISTS <u>1</u> ESTIMATORS _____ GEOLOGISTS _____ HISTORIANS _____ HYDROLOGISTS	<u>1</u> LANDSCAPE ARCHITECTS <u>1</u> MECHANICAL ENGINEERS <u>2</u> MINING ENGINEERS _____ PHOTOGRAMMETRISTS _____ PLANNERS: URBAN/REGIONAL <u>1</u> SANITARY ENGINEERS _____ SOILS ENGINEERS _____ SPECIFICATION WRITERS	_____ STRUCTURAL ENGINEERS <u>27</u> SURVEYORS _____ TRAFFIC ENGINEERS _____ COMPUTER PROGRAMMERS <u>2</u> ENVIRONMENTAL ENGINEER / SCIENTIST <u>1</u> GIS SPECIALIST <u>1</u> WATER RESOURCE ENGINEER <u>2</u> OTHER – Project Managers <u>62</u> TOTAL PERSONNEL		
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>9</u>					
*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.					

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE			Attachment "A"	
PROJECT NAME EOI – AML Engineering Design Services		DATE (DAY, MONTH, YEAR) 08/20/2025		FEIN 52-2365940
1. FIRM NAME Novel Geo-Environmental, Inc.		2. HOME OFFICE BUSINESS ADDRESS 171 Montour Run Road Moon Township, PA 15108		3. FORMER FIRM NAME Novel Geo-Environmental, LLC.
4. HOME OFFICE TELEPHONE 304-201-5180	5. ESTABLISHED (YEAR) 2002	6. TYPE OWNERSHIP <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Joint-Venture		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 650 MacCorkle Ave West Saint Albans, WV 25177				
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Amy Veltri, CEO; John Nottingham, President		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS		
9. PERSONNEL BY DISCIPLINE				
<u>3</u> ADMINISTRATIVE ____ ARCHITECTS ____ BIOLOGIST <u>2</u> CADD OPERATORS ____ CHEMICAL ENGINEERS <u>4</u> CIVIL ENGINEERS ____ CONSTRUCTION INSPECTORS ____ DESIGNERS ____ DRAFTSMEN	____ ECOLOGISTS ____ ECONOMISTS ____ ELECTRICAL ENGINEERS ____ ENVIRONMENTALISTS ____ ESTIMATORS <u>2</u> GEOLOGISTS ____ HISTORIANS ____ HYDROLOGISTS	____ LANDSCAPE ARCHITECTS ____ MECHANICAL ENGINEERS ____ MINING ENGINEERS ____ PHOTOGRAMMETRISTS ____ PLANNERS: URBAN/REGIONAL ____ SANITARY ENGINEERS ____ SOILS ENGINEERS ____ SPECIFICATION WRITERS	____ STRUCTURAL ENGINEERS ____ SURVEYORS ____ TRAFFIC ENGINEERS ____ COMPUTER PROGRAMMERS <u>4</u> ENVIRONMENTAL ENGINEER / SCIENTIST ____ GIS SPECIALIST ____ WATER RESOURCE ENGINEER <u>27</u> OTHER <u>42</u> TOTAL PERSONNEL	
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>3</u>				
*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.				

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE?

☐ YES☐ NO

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

NAME AND ADDRESS: New River Engineering, Inc.; 202 School Drive, Shrewsbury, WV 25015

SPECIALTY:
Surveying

WORKED WITH BEFORE

☒ Yes☐ No

NAME AND ADDRESS:

Novel Geo-Environmental, LLC, 650 MacCorkle Avenue West; St.
Albans, WV 25177

SPECIALTY:

Drilling and Geotechnical

WORKED WITH BEFORE

☒ Yes☐ No

NAME AND ADDRESS:

SPECIALTY:

WORKED WITH BEFORE

☐ Yes☐ No

NAME AND ADDRESS:

SPECIALTY:

WORKED WITH BEFORE

☐ Yes☐ No

NAME AND ADDRESS:

SPECIALTY:

WORKED WITH BEFORE

☐ Yes☐ No

NAME AND ADDRESS:

SPECIALTY:

WORKED WITH BEFORE

☐ Yes☐ No

NAME AND ADDRESS:

SPECIALTY:

WORKED WITH BEFORE

☐ Yes☐ No

NAME AND ADDRESS:

SPECIALTY:

WORKED WITH BEFORE

☐ Yes☐ No

12.	<p>A. Is your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Description and Number of Projects: RESPEC's AML sectors have worked on AML mitigation projects that included mine portals, mine shafts, investigation in surface and subsurface conditions, highwall reclamation and stabilization, acid mine drainage, shallow underground mine works, refuse fills, landslides, and mine drainage. RESPEC staff have experience analyzing AML projects and designing and constructing solutions that provide safe and long-term stable sites. RESPEC has been awarded two Office of Surface Mining Reclamation and Enforcement reclamation awards for projects in Wyoming.</p>
	<p>B. Is your firm experienced in Soil Analysis? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Description and Number of Projects: RESPEC's staff has extensive experience working on more than 30 projects with soil analysis on AML and mining sites. These projects included both geotechnical and environmental analyses of soils. RESPEC has performed slope stability analyses on highwalls, soil testing to determine acid-base accounting, and designed plans to ensure excavated materials would not generate acid mine drainage. RESPEC has designed and implemented re-vegetation plans on both reclaimed highwalls and coal refuse impoundments.</p>
	<p>C. Is your firm experienced in hydrology and hydraulics? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Description and Number of Projects: RESPEC staff have significant experience in hydrology and hydraulics related to AML and mining sites, with more than 100 projects. RESPEC has designed sediment control structures, diversions, channels, and culverts. Our staff have performed storm modeling ranging from a 10-year, 24-hour storm event through a Probable Maximum Precipitation storm event on a high-hazard Class C structure. RESPEC has designed stormwater management plans for AML projects, current surface mining, and underground mining sites. Many of these projects are located in Appalachia, and RESPEC is experienced in designing a stormwater management plan that is unique to the region's topography.</p>
	<p>D. Does your firm produce its own Aerial Photography and Develop Contour Mapping? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Description and Number of Projects: RESPEC can create a contour map to be used in a design through aerial mapping and photogrammetry software on approximately 30 projects. RESPEC has extensive experience using ground control points and drones to capture the data needed to develop a contour map. Existing LiDAR information from public sources is routinely obtained and used to generate contour mapping.</p>
	<p>E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Description and Number of Projects: RESPEC staff have experience with domestic waterline design and have worked on more than 30 projects. These projects include water management and septic design at a personnel camp for a mining operation, upgrades designs to the water system in a subdivision located in the North Pole, evaluation of water and sewer system components, conditions, and deficiencies, and providing a strategic plan for the utilities in the next 50 years.</p>
	<p>F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Description and Number of Projects: RESPEC and the team have significant experience in acid mine drainage (AMD) drainage evaluation and abatement design on AML, mining, and other sites. The team has worked on AML sites with high volumes of AMD, performed studies to evaluate possible sources of acid drainage, and designed and implemented optimum reclamation designs to alleviate AMD. RESPEC has designed and permitted an AMD treatment system related to pre-Surface Mining Control and Reclamation Act mines' seeps.</p>

G. Is your firm experienced in Construction Oversight?

☒ YES

☐ NO

Description and Number of Projects:

RESPEC and the team have extensive experience in managing complex construction oversight for oil and gas infrastructure projects, with a strong focus on safety, quality control, and regulatory compliance. We led construction oversight for a challenging O&G well pad development requiring deep keyway excavations exceeding 30 feet. Our responsibilities included full-cycle excavation management—layout, benching, slope stabilization, and engineered fill installation—executed in strict accordance with design and geotechnical specifications. We conducted detailed soil classification and compaction testing to ensure material suitability, maintaining comprehensive documentation for quality assurance and regulatory compliance. RESPEC also has construction oversight on road construction. We coordinated daily with field staff, contractors, and client representatives to ensure alignment with engineered design specifications and regulatory requirements. Our team managed on-site inspections and documentation of grading, drainage, and compaction activities, maintaining rigorous quality control. Safety oversight included hazard assessments, traffic control implementation, and safety briefings for both personnel and the public. We also collaborated with environmental compliance teams to integrate erosion and sediment control measures, ensuring full permitting compliance.

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
Morin, Dustin W. Principal-in-Charge	YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 15	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 2
Brief Explanation of Responsibilities Dustin will serve as the Principal-in-Charge. He will provide strategic oversight, project governance, and team leadership and support. He has more than 20 experience in AML reclamation, environmental assessment, and public-sector program leadership. He has managed and overseen projects involving portal closures, highwall stabilization, coal refuse fires, and large-scale site restoration in urban, rural, and environmentally sensitive areas. Dustin has directed full-lifecycle AML projects, from site investigation and hazard prioritization to design, permitting, construction oversight, and post-reclamation monitoring.			
EDUCATION (Degree, Year, Specialization) MS, 2005, Biology			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS National Association of Abandoned Mine Land Programs, Past President		REGISTRATION (Type, Year, State) NA	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.) Hatter, Jesse C. Project Manager	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 1.5	YEARS OF AML RELATED DESIGN EXPERIENCE: 13	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1.5
<p>Brief Explanation of Responsibilities</p> <p>Jesse is proposed to serve as a potential project manager. He brings over 15 years of experience in mining and civil engineering, with a strong background in AML reclamation. As the Technical Manager of RESPEC East's AML services, Jesse has successfully led a variety of projects for the West Virginia and Pennsylvania Departments of Environmental Protection. His work has addressed complex site hazards, including highwalls, subsidence areas, mine portals, and AMD. With his deep technical expertise and practical understanding of AML challenges, Jesse is well-equipped to manage the project from initial site assessment through construction completion.</p>			
EDUCATION (Degree, Year, Specialization) BS, 2010, Mining Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS NA		REGISTRATION (Type, Year, State) PE, 2018, WV; 2017, KY; 2023, VA	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.) Faulkner, Whitney E. Project Manager	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 4	YEARS OF AML RELATED DESIGN EXPERIENCE: 20	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: N/A
<p>Brief Explanation of Responsibilities</p> <p>Whitney Faulkner is a potential project manager with more than 23 years of experience in civil engineering, mine permitting, and AML reclamation. As Development Manager of RESPEC's Reclamation Services, she leads AML projects in West Virginia and Pennsylvania, addressing hazards such as portal closures, subsidence, landslides, and AMD. Her expertise spans regulatory compliance, multi-agency permitting, and technical design. Whitney's practical approach, strong communication, and deep understanding of mining and state government make her highly effective in managing complex projects from site evaluation through construction.</p>			
EDUCATION (Degree, Year, Specialization) BS, 2002, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS NA		REGISTRATION (Type, Year, State) PE, 2019, WV; 2009, KY; 2023, PA; 2008, IL; 2025, IN; 2025, OH; 2023, OR	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.) Stephens, Jake L. Project Manager	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 1	YEARS OF AML RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: NA
Brief Explanation of Responsibilities Jake Stephens is a potential project manager. He is a licensed mining engineer with 15 years of experience in project management, engineering design, construction oversight, and risk consulting. He has led reclamation efforts across West Virginia and Pennsylvania, addressing AML hazards such as subsidence, highwalls, mine portals, and AMD treatment systems. Jake's expertise spans the full project lifecycle—from identification and permitting to closeout—supported by strong skills in regulatory compliance and field-based AML feature evaluation. His underground and surface coal mining certifications, hands-on experience, and technical rigor enable him to deliver practical, compliant solutions for complex reclamation projects.			
EDUCATION (Degree, Year, Specialization) BS, 2010, Mining Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS NA		REGISTRATION (Type, Year, State) PE, 2025, WV; 2016, KY;	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.) Hall, Ryan, L. Project Engineer	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 1	YEARS OF AML RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE N/A
Brief Explanation of Responsibilities Ryan will serve as a project engineer. He is a registered Professional Engineer with hands-on experience supporting AML projects in West Virginia and Pennsylvania. His work includes subsurface investigations, highwall stabilization design, hydrologic analysis, and coordination with state agencies. He has developed drilling plans, conducted field evaluations, and analyzed soil samples to inform design recommendations for complex sites such as Crafts Run and Logan Run. With ICC certification in special inspections and strong communication skills, Ryan effectively bridges design teams, contractors, and agencies to ensure safe, compliant project execution.			
EDUCATION (Degree, Year, Specialization) BS, 2019, Biosystems and Agricultural Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS NA		REGISTRATION (Type, Year, State) PE, 2024, KY	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
Purkey, David P. Project Manager	YEARS OF AML DESIGN EXPERIENCE: 9	YEARS OF AML RELATED DESIGN EXPERIENCE: 3	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 7
Brief Explanation of Responsibilities David Purkey will serve as a potential project manager. He is a civil engineer with more than 30 years of experience specializing in slope stability, drainage design, landslide mitigation, and AML reclamation. He has led engineering and permitting for numerous West Virginia Department of Environmental Protection projects, including Piney Creek, Sovern Run, and Crafts Run. His work includes developing full design packages for highwall stabilization, stream restoration, and mine seals, as well as managing large-scale earthwork and conducting thousands of right-of-way reviews. David's practical solutions have consistently improved safety, reduced costs, and prevented structural failures across challenging terrain in West Virginia, Pennsylvania, and Ohio.			
EDUCATION (Degree, Year, Specialization) BS, 2006, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS NA		REGISTRATION (Type, Year, State) EI, 2010, WV	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
Pennington, Lauren N. Project Engineer	YEARS OF AML DESIGN EXPERIENCE: 4	YEARS OF AML RELATED DESIGN EXPERIENCE: 4	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: NA
Brief Explanation of Responsibilities Lauren will serve as a project engineer. She has experience in environmental permitting, reclamation design, and feasibility studies, with a focus on critical minerals. She has designed drainage and mitigation plans for AML sites and supported rare earth element recovery projects through plant circuit testing and tracer studies. Her work includes stream and wetland mitigation review in collaboration with the Kentucky Department of Fish and Wildlife Resources. Lauren is proficient in a range of technical tools, including AutoCAD Map 3D, Civil 3D, SEDCAD, and AMD Treat, supporting her ability to deliver data-driven, site-specific solutions.			
EDUCATION (Degree, Year, Specialization) BS, 2022, Mining Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: NA		REGISTRATION (Type, Year, State) NA	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
Ruiz, Sharon Arritea E. Project Engineer	YEARS OF AML DESIGN EXPERIENCE: 1	YEARS OF AML RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: NA
Brief Explanation of Responsibilities Sharon will serve as a project engineer. She is a mining engineer with experience supporting AML reclamation projects in West Virginia and Pennsylvania, including property research, right-of-entry coordination, and environmental permitting. Her academic focus on renewable energy installation on mined lands reflects a commitment to sustainable post-reclamation use. Sharon's technical proficiency in Vulcan, Deswik CAD, AutoCAD, and Power BI, along with her bilingual fluency, supports efficient field coordination and clear communication across stakeholders.			
EDUCATION (Degree, Year, Specialization) BS, 2018, Mining and Metallurgical Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: Society for Mining, Metallurgy (SME), and Exploration; Women In Mining		REGISTRATION (Type, Year, State) NA	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
Strickland, Aaron P. Construction Manager	YEARS OF AML DESIGN EXPERIENCE: NA	YEARS OF AML RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: NA
Brief Explanation of Responsibilities Aaron will lead our construction inspection services. He has more than 20 years of experience in mining, civil site construction, and heavy excavation, including 15 years in the oil and gas industry. He has overseen more than 100 construction projects involving well pad development, slope stabilization, stormwater systems, and road improvements across West Virginia, Pennsylvania, and Ohio. His technical expertise includes slope stability assessments, aquifer evaluations, and geotechnical investigations to ensure quality and compliance. As a Qualified Stormwater Manager and OSHA-30 certified professional, Aaron's hands-on approach supports safe, timely, and cost-effective reclamation outcomes.			
EDUCATION (Degree, Year, Specialization) BA, 2002, History/Religious Studies - Construction Management and Heavy Excavation Management			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS NA		REGISTRATION (Type, Year, State) NA	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
Schmidt, Terry W. Vice President	YEARS OF AML DESIGN EXPERIENCE: 35	YEARS OF AML RELATED DESIGN EXPERIENCE: 35	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: NA
Brief Explanation of Responsibilities Terry will serve as a technical advisor. He is a licensed mining engineer with over 35 years of experience in mine facility design, permitting, water treatment, and AML reclamation. He has led large-scale projects across the eastern U.S., including AMD treatment systems, highwall stabilization, and long-term water balance modeling. His work includes engineering permit packages, compliance strategy support, and technical presentations at national conferences. With Mine Safety and Health Administration certification and licensure in six states, Terry's deep regulatory knowledge and leadership have helped transform mine-impacted lands into safe, sustainable environments.			
EDUCATION (Degree, Year, Specialization) MS, 1994, Mining Engineering; BS, 1985, Mining Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: PA Coal Alliance, Board Member; PACA, American Society of Mining and Reclamation; PA Mining Professionals; Liaison to PACA, PCA, and PMP; American Institute of Mining Engineers PA Association of Environmental Professionals		REGISTRATION (Type, Year, State) PE, 1994, PA; 1996, VA; 1995, Tennessee; 1997, Ohio; 1996, North Carolina; 1997, Maryland	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
Bunk, Garry M. Surveyor	YEARS OF AML DESIGN EXPERIENCE: NA	YEARS OF AML RELATED DESIGN EXPERIENCE: NA	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: NA
Brief Explanation of Responsibilities Garry Bunk will be the surveyor for this EOI. He is a PLS with more than 26 years of experience in boundary resolution, topographic mapping, construction stakeout, and geodetic control. As Chief of Surveys for Musser Engineering, a Division of RESPEC, he leads surveying efforts across Pennsylvania and the Appalachian region for mining, infrastructure, and development projects. His expertise in subsurface conditions and historical property lines supports accurate documentation and coordination in AML-rich areas. Garry's precision and reliability make him well-suited to meet the complex surveying needs of West Virginia's reclamation and permitting efforts.			
EDUCATION (Degree, Year, Specialization) BS, 2000, Broadcasting			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS PA Society of Land Surveyors (PSLS)		REGISTRATION (Type, Year, State) PLS, 2015, PA	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
Brady, Karen A. Vice President	YEARS OF AML DESIGN EXPERIENCE: NA	YEARS OF AML RELATED DESIGN EXPERIENCE: NA	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 24
Brief Explanation of Responsibilities Karen will assist with domestic waterline designs. She specializes in utility system design, analysis, and coordination for water and wastewater infrastructure. Her technical expertise includes hydraulic and thermal modeling, utility conflict resolution, and system realignment in constrained environments. She develops constructible designs that meet permitting requirements and long-term operational needs. Karen's collaborative approach and ability to translate complex requirements into field-ready plans support reliable, compliant utility upgrades with minimal disruption.			
EDUCATION (Degree, Year, Specialization) BS, 2001, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS ASCE, AWWA		REGISTRATION (Type, Year, State) PE (Environmental), 2013, AK; PE (Civil), 2006, AK; 2022, SD; 2023, WY; 2025, MT	

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

Acoustic Doppler Current Profiler equipment; Autodesk AutoCAD; Autodesk LDD; Autodesk Civil 3D; AQUATOX; Bentley MicroStation; Bentley InRoads; Bentley FlowMaster; Bentley ProjectWise; Carlson Software; Carlson Cavity Auto Laser Scanner (C-ALS); Carlson Boretrak2 (BT2); Colorado Urban Hydrograph Procedure (CUHP); DJI Mavic Mavic 2 Drone; EPA SWMM; Esri ArcGIS; FHWA HY8; Flo-2D; FLUX/Bathtub; Global Mapper; HEC-GeoRAS; HEC-GeoHMS; HEC-HMS; HEC-RAS; Hydrologic Simulation Program-Fortran (HSPF); HyDrone equipment for bathymetric surveys; Nomis Seismographs; Optical televiewer; Rockscience; REAME; SRH-2D; ShotTrack Accelerometer (ViB); ShotTrack; Velocity of Detonation (VOD 305); SEDCAD; SWAT; WASP; UDSewer; USGS PKFQ; USGS WSPRO

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

PROJECT NAME, TYPE, AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Crown Hill Refuse, Slide and Drainage, AML Reclamation, Crown Hill, WV	WV DEP; 601 57 th ST SE Charleston, WV 25304	Engineer of Record	\$3.1M	95%

Morris Creek Water Treatment, AMD Treatment, Montgomery, WV	WV DEP; 601 57 th ST SE Charleston, WV 25304	Engineer of Record	\$500,000	50%
Summerlee Water Treatment, AMD Treatment, Summerlee, WV	WV DEP; 601 57 th ST SE Charleston, WV 25304	Engineer of Record	\$500,000	50%
Beech Bottom Highwall, AML Reclamation, Beech Bottom, WV	WV DEP; 1000 Technology Drive Suite 3220; Fairmont, WV 26554	Engineer of Record	\$7.6M	20%
Bethany (Haizlett) DS, Highwall and AMD, AML Reclamation, Bethany, WV	WV DEP; 1000 Technology Drive Suite 3220; Fairmont, WV 26554	Engineer of Record	\$3.3M	20%
Buffalo Creek Highwall, AML Reclamation, Bethany, WV	WV DEP; 1000 Technology Drive Suite 3220; Fairmont, WV 26554	Engineer of Record	\$1.8M	15%
Craft's Run Maintenance, AML Reclamation, Maidsville, WV	WV DEP; 1000 Technology Drive Suite 3220; Fairmont, WV 26554	Engineer of Record	\$846,000	40%
Logan Run Highwall, AML Reclamation, Bethany, WV	WV DEP; 1000 Technology Drive Suite 3220; Fairmont, WV 26554	Engineer of Record	\$1.7M	15%
Richard Mine Drainage Facility, AML Reclamation, Morgantown, WV	WV DEP; 1000 Technology Drive Suite 3220; Fairmont, WV 26554	Engineer of record	\$400,000	15%
Wade's Run Dangerous Embankment phase II, AML Reclamation, Osage, WV	WV DEP; 1000 Technology Drive Suite 3220; Fairmont, WV 26554	Engineer of record	\$800,000	30%
Northwest Milton, AML Reclamation	PA BAMR; 286 Industrial Park Road, Ebensburg, PA 15931	Engineer of record	\$1.1M	80%
Sherwin North II, AML Reclamation, Butler County, PA	PA BAMR; 400 Markey Street, 13 th Floor, Harrisburg, PA 17101	Engineer of record	\$510,000	75%
Commissioners Lake, AML Reclamation, Northumberland County, PA	PA BAMR; 2 Public Square, 5 th Floor, Wilkes-Barre, PA 18701	Engineer of Record	\$40M	10%
No. 6 Shaft Evaluation, Subsidence Evaluation, Luzerne County, PA	PA BAMR; 2 Public Square, 5 th Floor, Wilkes-Barre, PA 18701	Engineer of Record	\$433,000	25%
TOTAL NUMBER OF PROJECTS: Overall projects 2,219		TOTAL ESTIMATED CONSTRUCTION COSTS: \$62,589,000		

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS					
PROJECT NAME, TYPE, AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Eddy Creek Restoration, AML Reclamation, Lackawanna County, PA	AML Inventory Update, Mitigation for Vertical Openings and technical advisor on other AML reclamation	PA BAMR; 2 Public Square, 5th Floor, Wilkes-Barre, PA 18701	2027	\$7.0M	\$1.1M

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE, AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Beckley Soccer Complex; AML Reclamation; Beckley, WV	WV DEP	\$2.8M	2024	No
MacArthur Subsidence Phase III; Subsidence Mitigation, MacArthur, WV	WV DEP	\$13.5M	2025	No
Price Hill Pond Cleanings, AML Reclamation, Price Hill, WV	WV DEP	\$944,000	2025	No
Hawthorn West, AML Reclamation, Hawthorn, PA	PA BAMR; 286 Industrial Park Road, Ebensburg, PA 15931	\$1.8M	2025	No

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS CONSTRUCTION OVERSIGHT ON PROJECTS

PROJECT NAME, TYPE, AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
MacArthur Subsidence Phase III; MacArthur, WV	WV DEP; 601 57th ST SE Charleston, WV 25304	\$13M	2025	Pending

19. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE, AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH

20. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

21. The foregoing is a statement of facts.

Signature: 

Title: Market Sector Lead, Reclamation

Printed Name: Dustin Morin

Date: August 20, 2025

AML AND RELATED PROJECT EXPERIENCE MATRIX Attachment "B"																											
PROJECT	Exp. Basis C=Corp. P=Personnel*	Additional Info Provided in Page(s)**	PROJECT EXPERIENCE REQUIREMENTS																PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional								
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Evaluation	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/ Mitigation/Replacement	Construction Inspection/ Management	Water Treatment	Equipment/ Structure Removal	Stream Restoration	Geotechnical/ Stability	Dustin Morin	Jesse Hatter	Whitney Faulkner	Jake Stephens	Lauren Pennington	Ryan Hall	David Purkey	Sharon Arrieta Ruiz		
Beckley Soccer Complex	Both	15	X		X	X			X		X		X					M		M, P	P	P					
MacArthur Subsidence Phase III	Both	16		X					X		X		X				X	M		M, P	M, P	P			P		
Crown Hill Refuse, Slide and Drainage	Both	18	X		X	X					X		X				X	M		M, P							
Price Hill Pond Cleanings	Both	19	X			X				X	X	X		X				M		M, P		P					
Hawthorn West	Both	20	X								X						X	M		M, P		P					
Northwest Milton	Both	21	X								X						X	M	M, P								
Sherwin North II	Both	22	X	X		X					X							M	M		M, P				P		
Commissioners Lake	Both		X	X	X	X					X	X		X				M	M		M, P		P		P		
No. 6 Shaft Evaluation	Both																	M	M, P				P				
Crafts Run Maintenance	Both	22	X		X	X					X	X	X	X				M	M				P	M, P			
Wade Run Dangerous Embankment II	Both		X			X				X	X	X	X	X	X	X	X	M	M				P	M, P			
Morris Creek Water Treatment	Both		X			X					X	X	X	X				M		M	M, P	P			P		
Summerlee Water Treatment	Both		X			X					X	X	X	X				M		M	M, P				P		
Beech Bottom Highwall	Both		X	X	X	X					X	X	X					M	M			P	P		M, P		

Bethany (Haizlett) DS, Highwall and AMD	Both		X	X	X	X					X	X	X	X		X	X	M	M		M, P		P	P	
Buffalo Creek Highwall	Both		X			X					X		X				X	M	M, P			P	P	P	
Logan Run Highwall	Both		X			X					X		X				X	M	M		M, P	P	P	P	

* List whether project experience is corporate or personnel-based or both.

** Use this area to provide specific sections or pages if needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed.



APPENDIX B. RÉSUMÉS



DUSTIN W. MORIN

MARKET SECTOR LEAD, RECLAMATION

OVERVIEW

With more than 24 years of experience in abandoned mine reclamation (AML) and environmental restoration, Dustin Morin possesses a specialized skill set centered around leadership, program and project management, grant administration, and National Environmental Policy Act (NEPA) expertise. Since 2021, he has served as the Director of the Alabama Department of Labor's Mining and Reclamation Division, overseeing the AML Section, State Mine Safety & Inspection Section, and Surface Mine permitting and inspection of the Non-Fuel Minerals Section. With more than a decade of experience with the Department of Labor, Dustin has a diverse background in land restoration, environmental science, and construction project management. His career includes leadership roles as a primary responder on the U.S. Environmental Protection Agency's (EPA's) Superfund Technical Assessment and Response Team (START), where he gained expertise in environmental science, emergency response, risk management, and large-scale environmental restoration projects. Dustin served on the National Association of Abandoned Mine Land Programs executive cabinet, recently completing his term as president in 2024. He has represented the State of Alabama as the Governor's delegate to the Interstate Mining Compact Commission since 2019. Dustin's work is driven by a commitment to public service, safety, sustainability, and positive community impact.

TECHNICAL EXPERIENCE

Abandoned Mine Reclamation. While working as an inspector, program supervisor, and division director, Dustin has experience in all facets of abandoned mine reclamation, including field inventory collection and hazard prioritization of AML features, site investigation, survey and mapping, reclamation design, and construction. Throughout his career, Dustin has conducted oversight and provided technical expertise on a variety of AML reclamation projects involving portal closures, highwall reclamations, subsidence stabilizations, and coal fire mitigation.

Staff Training and Development. For more than 10 years, Dustin served as part of the instructor cadre for the U.S. Office of Surface Mining Reclamation and Enforcement, National Technical Training Program. Using his practical knowledge and expertise, Dustin has provided training and mentorship to state and federal personnel in the areas of Erosion and Sediment Control, Mine Gas Safety and Inspection, Wetlands Awareness, Soils, and Revegetation and served as the Lead Instructor for the Abandoned Mine Reclamation Projects training course.

Program, Project, and Consultant Management. Dustin has managed personnel, projects, and contractors at all levels of his career. He has managed the Mining and Reclamation Division, which includes three critical mining-related programs: AML, Underground Mine Safety and Inspection, and Non-Fuel Surface Mine Permitting. He has been responsible for effectively communicating and coordinating overall program and project functions while ensuring that programmatic goals and project execution were achieved on time and on budget.

Environmental Assessment. As a consultant and program manager, Dustin has conducted environmental assessments on multiple mine reclamation, environmental removal, and contamination remediation projects. He has consulted with multiple federal and state agencies to ensure compliance with NEPA and minimize impacts on threatened and endangered species, cultural resources, and waters of the U.S. while restoring the affected lands and waters to beneficial use.

Mine Safety and Rescue. In his role as a Division Director for Mining and Reclamation on behalf of the State of Alabama, Dustin effectively managed the mine safety and inspection program. He directed the

TECHNICAL EXPERTISE

- / Abandoned Mine Reclamation
- / Staff Training and Development
- / Program, Project, and Consultant Management
- / Environmental Assessment
- / Mine Safety and Rescue
- / Communications and Public Relations
- / Surface Mining
- / Endangered Species Act

EDUCATION

- / MS in Biology, Jacksonville State University, Jacksonville, AL (2005)
- / BS in Biology, Jacksonville State University, Jacksonville, AL (2003)

PROFESSIONAL MEMBERSHIPS/COMMITTEES

- / NAAML President
- / IMCC
- / OSMRE National Training Program Steering Committee
- / OSMRE National Technology Transfer Team
- / IMCC Mine Health and Safety Committee
- / IMCC Abandoned Mine Land Committee
- / NAAML Training Committee
- / NAAML Finance Committee

HONORS & AWARDS

- / OSMRE AML Reclamation Small Project Award: *Ruffner Mountain Portals Project Jefferson County, Alabama* (2004)
- / OSMRE AML Reclamation Small Project Award: *Ruffner Mountain Portals Project Jefferson County, Alabama* (2020)
- / OSMRE AML Reclamation Small Project Award: *Marvel Gob Fire Emergency Project – Bibb County, Alabama* (2019)

WORK HISTORY

- / RESPEC (2025–Present)
- / Alabama Department of Labor (2019–2024)
- / Oneida Total Integrated Enterprises (2006–2012)

training and performance of the state-funded underground mine rescue teams. He has managed multiple underground rescue operations in cooperation with the Mine Health and Safety Administration. Under his leadership, the mine rescue teams consistently placed in the top five at multiple National Mine Rescue competitions.

Communication and Public Relations. Dustin has developed excellent communication and public relations skills while leading the Mining and Reclamation Division for the State of Alabama and serving as an officer of the National Association of AML Programs. Dustin has provided congressional testimony on behalf of the state AML programs and coordinated routinely with other state program administrators, state and federal legislators, federal agency counterparts, and the public on issues surrounding abandoned mine reclamation.

PROJECT EXPERIENCE

START, Gulf States Steel Removal/Demolition, EPA, Gadsden, Alabama. Dustin was the Project Manager on this project from 2008 to 2012. He profitably and effectively managed one of the largest contamination removal/land reclamation actions conducted in Alabama at the formerly abandoned Gulf States Steel facility in Gadsden, Alabama. This removal project encompassed hazardous waste characterization, soil, water, and air sampling, oversight of the removal and treatment of large volumes of abandoned chemical contaminants, and the structural demolition of numerous buildings and process vessels. As the project manager and technical consultant, Dustin was responsible for overseeing all project activities and ensuring adherence to federal and state Resource Conservation and Recovery Act and Comprehensive Environmental Response, Compensation, and Liability Act regulatory guidelines on behalf of EPA.

Piper Mine Reclamation Project, Cahaba National Wildlife Refuge, Alabama AML Program, Bibb County, Alabama. Dustin was the Division Director/Program Manager for this project, which involved mitigating the physical and environmental hazards associated with an abandoned early 1800s surface and underground coal mine. Work included survey, mapping, and design to reclaim 4,830 linear feet of dangerous highwall with an average height of 60 feet, 59 acres of abandoned spoil area, three hazardous impoundments, 6 acres of gob refuse, and 3 acres of slump on a U.S. Fish and Wildlife (USFW) Wildlife Refuge. This project required moving just under 550,000 cubic yards of AML overburden and provided expanded access to the wildlife refuge and numerous recreational amenities, including the creation of a new 10-acre pond/lake stocked for fishing with canoe launch/boat ramp access to control drainage; improvement and expansion of the existing trail system to include multiple new trails and a landing from trail system at the fishing area; updated informational and interpretive signage throughout the project area of the refuge, two new gravel parking areas, including handicapped-accessible parking at the fishing lake area; access control gates to allow different areas to be open/closed to the public at the discretion of refuge managers; and access roads from the front to the back of the refuge allowing expanded access to USFW staff. Dustin's primary responsibilities included site investigation, water sampling, survey and mapping, environmental assessment and consultation, engineering cost estimates, review and approval of construction plans and specifications, and construction management and post-construction monitoring.

Ruffner Mountain Portals Project, Alabama AML Program, Birmingham, Alabama. Dustin was the Project Manager and provided construction management for this project, which involved mitigating and eliminating the physical safety hazards associated with two open underground iron ore portals located 1.5 miles apart within an urban nature preserve within the city limits of Birmingham, Alabama. Both portals were within 50 feet of frequently used hiking trails and had visible evidence of people entering the underground works, posing an extreme danger to visitors to the nature preserve. Work consisted of site investigation, access road construction, environmental assessment and consultation, engineering design plans and specifications, construction management, and fabrication and installation of bat-compatible closures. After securing the portals with bat-compatible closures, Ruffner staff discovered a roosting colony of approximately 500 Tricolored bats. As a result of the work completed by AML, securing the mine portals from human entry, the site was selected by Bat Conservation International as a research site for the potential treatment of white-nose syndrome.

Marvel Gob Fire II Emergency Project, Alabama AML Program, Marvel, Alabama. Dustin was the project manager and provided construction management for this project, which involved mitigating and eliminating the physical and environmental hazards associated with surface burning associated with a refuse pile from an abandoned underground coal mine in the early 1900s. Work included excavation, extinguishing the smoldering gob, and covering and encapsulation with clay. Dustin's primary responsibilities included air and thermal monitoring of the smoldering gob, environmental assessment and consultation, engineering design and specifications, and construction management.

Three Forks South Reclamation Project, Alabama AML Program, Tuscaloosa County, Alabama. Dustin was the Project Manager and provided construction management for this project, which involved mitigating and eliminating the extreme physical and environmental hazards associated with abandoned surface mining activities dating back to the early 1960s. Work included



survey, mapping, and design for reclamation of 3,400 linear feet of dangerous highwall with an average height of 60 feet, 60 acres of associated spoil area, and two dangerous impoundments, all within 300 feet of several primary residences. Dustin's primary responsibilities included site investigation, water sampling, drone survey and mapping, environmental assessment and consultation, engineering cost estimates, engineering design plans and specifications, and construction management.

Labuco Gob Fire Emergency Project, Alabama AML Program, West Jefferson, Alabama. Dustin was the Project Manager and provided construction management for this project, which involved mitigating and eliminating the physical and environmental hazards associated with surface burning associated with a refuse pile from an abandoned underground coal mine impacting a county road and water line. Work included excavation and extinguishing the smoldering gob and cover and encapsulation with clay, rerouting the road, and relocating the county water line. Dustin's primary responsibilities included air and thermal monitoring of the smoldering gob, coordination with the county engineers, environmental assessment and consultation, engineering design and specifications, and construction management.

Sicard Hollow Reclamation Project, Alabama AML Program, Vestavia Hills, Alabama. Dustin was the Project Manager and provided construction management for this project, which involved mitigating and eliminating the extreme physical and environmental hazards associated with an abandoned surface mine adjacent to a residential community and athletic sports complex. Work included survey, mapping, and design for reclamation of 4,500 linear feet of dangerous highwall with an average height of 50 feet, 65 acres of associated spoil area, and four dangerous water impoundments, all within 300 feet of a youth athletic complex. After reclamation, the AML Program coordinated with the City of Vestavia Hills to install walking trails, pickleball courts, a pavilion, and a dog park on the previously reclaimed AML site. Dustin's primary responsibilities included site investigation, water sampling, drone survey and mapping, environmental assessment and consultation, engineering cost estimates, engineering design plans and specifications, and construction management.

Shaft No. 6 Evaluation and Stabilization, Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation, Newport Township, Pennsylvania. Dustin is the Principal – Reclamation Sector Lead for The Shaft No. 6 project involves a geophysical evaluation of the No. 6 Shaft in Newport Township, Luzerne County, Pennsylvania. This abandoned mine shaft, located near public housing, has a history of subsidence events. The evaluation aims to assess the shaft's condition and identify any voids or anomalies within it. Additional tasks include developing a conceptual plan to eliminate the hazards associated with shaft subsidence and overseeing implementation and construction management to stabilize the shaft and prevent future continues subsidence. Dustin's primary responsibilities include site investigation, engineering design plans and specifications, cement grouting and stabilization of the shaft, and construction management.



JESSE HATTER, PE

PROJECT MANAGER

OVERVIEW

Jesse Hatter is an accomplished engineer with 15 years of demonstrated expertise in engineering design, project management, and environmental oversight. He has a track record of success in steering intricate projects through the entire lifecycle, from conceptualization to execution and implementation. Jesse's leadership approach integrates analytical ingenuity and creative insight to effectively oversee projects. Leading abandoned mine land projects from scope and budgeting to site investigation, environmental assessment, data collection and analysis, design, permitting, and bidding.

TECHNICAL EXPERIENCE

Abandoned Mine Reclamation. Jesse has extensive experience managing all phases of abandoned mine land (AML) reclamation projects, from initial site assessments through design, permitting, and construction oversight. He has led efforts to remediate hazardous highwalls, subsidence features, mine openings, and acid mine drainage impacts across diverse terrains. Jesse applies a multidisciplinary approach that integrates geotechnical analysis, hydrologic modeling, and environmental compliance to develop effective, site-specific solutions. His work emphasizes public safety, environmental restoration, and long-term sustainability, coordinating with state and federal agencies, local stakeholders, and contractors to ensure successful project outcomes.

Project Management. Jesse has established clear objectives, deliverables, and schedules for a variety of projects. He assembled teams and provided clear direction and support for successful project completion. Throughout these projects, he monitored progress and proactively addressed potential roadblocks to maintain adherence to project timelines. Jesse maintains clear and effective communication among all stakeholders to balance all resources, timelines, and tasks to keep projects on track. This approach has consistently facilitated the smooth execution and timely completion of projects. Attribute

Civil Engineering. Jesse has developed and overseen numerous civil site projects from conception to completion, ranging from single-use commercial projects to large multi-unit residential developments and large mine projects. Working with surveyors to collect the necessary existing condition data through both conventional field surveys and LiDAR flights. Jesse prepares site 3D models of the site and designs plans, ensuring constructability and design optimization.

Stormwater Management. Jesse has extensive experience in stormwater management, successfully leading projects that mitigate flooding and improve water quality. He has designed and implemented both green and gray infrastructure solutions, including mitigated wetlands, permeable pavements, and advanced drainage systems. Jesse's expertise in stormwater modeling allows him to predict runoff patterns and optimize system performance. His proactive approach ensures compliance with environmental regulations and promotes sustainable urban development.

PROJECT EXPERIENCE

Shaft No. 6 Evaluation, Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation, Newport Township, Pennsylvania. Jesse served as the project manager and technical lead for the evaluation of the Glen Lyon No. 6 Shaft, a historically significant and geotechnically complex abandoned mine feature located adjacent to public housing. Jesse led the development of a comprehensive work plan, including site safety protocols, utility coordination, and environmental compliance measures. The project will provide a safe and stable environment to allow drilling for geophysical evaluation of the shaft's current condition and to prevent future subsidence events.

Northwest Milton Reclamation Project, Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation, Redbank Township, Armstrong County, Pennsylvania. Jesse served as the project

TECHNICAL EXPERTISE

- / Abandoned Mine Reclamation
- / Project Management
- / Civil Engineering
- / Stormwater Management
- / Surface and Underground Mining
- / Construction Permitting
- / Surveying
- / Staff Training

EDUCATION

- / BS in Mining Engineering, University of Kentucky, Lexington, KY (2010)

REGISTRATIONS & LICENSES

- / Professional Engineer in Kentucky, West Virginia, and Virginia

CERTIFICATIONS & TRAINING

- / KEPSC Inspector Qualification

WORK HISTORY

- / RESPEC (2024–Present)
- / AGE Engineering Services, Inc (2017–2024)
- / Alliance Resource Partners, L.P. (2013–2017)
- / Patriot Coal Corporation (2010–213)



manager for the design and permitting of a comprehensive AML reclamation effort addressing a 1,400-foot dangerous highwall and a 9-acre spoil pile. The project required careful environmental, geotechnical, and regulatory coordination, including wetland delineation and mitigation planning, utility verification, and stakeholder engagement. Jesse led the development of bid-ready construction documents, including detailed grading plans, erosion and sediment control measures, technical specifications, and all permitting requirements. He worked closely with property owners and regulatory agencies to ensure that all parties were satisfied with the project. His leadership ensured the project advanced efficiently through the design phases, culminating in a fully permitted, construction-ready package that addressed both public safety and environmental restoration goals.

Commissioners Lake Reclamation Project, Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation, Mount Carmel Township, Northumberland County, Pennsylvania. Jesse led the planning and design of one of Pennsylvania's largest and most complex AML reclamation projects, encompassing over 240 acres of disturbed land, including a 4,000-foot dangerous highwall, extensive spoil areas, and a hazardous water body known as Commissioners Lake. The project required a multidisciplinary approach to address public safety, environmental restoration, and long-term site stability. Jesse coordinated detailed site investigations, wetland delineations, and water quality assessments, and managed the development of a comprehensive grading plan involving over 4.5 million cubic yards of earthwork. He oversaw the integration of stormwater management strategies, environmental permitting, and stakeholder engagement with local municipalities, regulatory agencies, and property owners. Jesse also directed the preparation of bid-ready construction documents, technical specifications, and cost estimates, ensuring compliance with federal infrastructure funding requirements.

Buffalo Creek Highwall, West Virginia Department of Environmental Protection, Division of Land Restoration, Brooke County, West Virginia. Jesse managed the design and planning of a high-priority AML reclamation project focused on mitigating multiple hazards across a 30-acre site impacted by historic surface and underground mining. The project addressed nearly 5,000 linear feet of dangerous highwall, a hazardous underground mine impoundment, and an active landslide area contributing to sedimentation and acid mine drainage (AMD) in Buffalo Creek. Jesse led the development of a comprehensive reclamation plan that included access road upgrades, sediment control structures, wet seal installation, drainage channel construction, and regrading of highwall and subsidence-prone areas. He coordinated geotechnical investigations, environmental assessments, and stakeholder engagement, ensuring the project met all regulatory requirements and environmental performance goals. His responsibilities also included cost estimating, construction specifications, and post-construction monitoring strategies. The project significantly improved site stability, reduced AMD discharge, and restored the area to a safer and more sustainable condition.

Beech Bottom, WVDEP, West Virginia. Jesse conducted site investigation visits on a 215-acre AML project, working to confirm existing AML features and identify additional unknown features. Jesse used GIS tools to log and capture data in the field to incorporate design solutions. The site includes over 13,000 feet of highwall, several portals, spoil piles, and dangerous impoundments.

Electric Utility Transmission Line Replacement, AEP Kentucky Power, Kentucky. Jesse developed construction plans for access roads and secured the necessary permits for a transmission line replacement project. He provided environmental oversight and conducted thorough inspections throughout the project's duration. Jesse also trained company personnel in stormwater inspections and reporting procedures.

Civil Site Projects, Private Equity, Central Kentucky. Jesse oversaw projects from the feasibility study and conceptual design stages through to grading and drainage design, erosion and sedimentation control planning, utility layout, stormwater management, and construction specifications. He also served as the technical representative for planning and zoning matters. Jesse was also responsible for acquiring the necessary permits to ensure project completion.

Lexington Underground 69KV, LG&E KU, Lexington, Kentucky. Jesse assisted with the conceptual design and alternative routing for a proposed underground transmission line through downtown Lexington. He collected and mapped underground utility locations to guide route selection. Jesse engineered the vertical and horizontal alignment, construction plans, quantities, and specifications. He also provided project management for survey services during the construction phase.

Mine Shaft Projects, Patriot Coal Company and River View Coal, Waverly, Kentucky. Jesse provided project management and oversaw underground services for the installation of three ventilation shafts for underground coal mines in Western Kentucky. His role ensured that the critical infrastructure was implemented efficiently and safely, enhancing the mines' operational capabilities.



WHITNEY FAULKNER, PE

DEVELOPMENT MANAGER, AML

TECHNICAL EXPERTISE

- / Permitting
- / Project Management
- / Stormwater Management
- / Site Development

EDUCATION

- / BS in Civil Engineering, University of Kentucky, Lexington, KY (2002)

REGISTRATIONS & LICENSES

- / Professional Engineer in Kentucky, West Virginia, Pennsylvania, Oregon, Indiana and Illinois

WORK HISTORY

- / RESPEC (2018–Present)
- / Kentucky DNR Division of Mine Permits (2009–2018)
- / Cambridge Homes (2006–2008)
- / Bollinger, Lach & Associates (2002–2006)
- / H. W. Lochner (1998–2002)

OVERVIEW

Whitney Faulkner has 23 years of experience in civil and environmental engineering. She is the manager of Reclamation Services and is currently working on Abandoned Mine Land (AML) projects in West Virginia and Pennsylvania. These projects include subsidence mitigation, acid mine drainage, reclamation of dangerous highwalls, and closure of underground mine portals. She worked as an engineer permit reviewer for 9 years for the Kentucky Department of Natural Resources (DNR) Division of Mine Permits, which included reclamation of mining sites, backfill and grading, excess spoil structures, sediment-control structures, and coal waste-disposal areas. She also has experience in stormwater detention design, sanitary sewer and watermain design, project management, and stormwater modeling. She can collaborate and work with multiple agencies to secure permits in a timely manner. As a land-development engineer, Whitney managed professional consultants on 1,500-acre projects that involved working closely with city officials and maintaining a \$140 million budget. Whitney has experience working with various software programs, including SEDCAD, GeoStudio, REAME, AutoCAD, Carlson, and ArcMAP.

TECHNICAL EXPERIENCE

Mine Site Reclamation. Whitney is working on (AML) projects in West Virginia and Pennsylvania. She is the project manager on these projects. The reclamation includes subsidence mitigation of 150 acres, closures of collapsed and draining underground mine portals, acid mine drainage ponds, and reclaiming dangerous highwalls and slides. She is responsible for preparing the scope of services, budget, and communication with state officials and subcontractors.

Project Management. Whitney serves as the project manager for the Kentucky Department of Fish & Wildlife Resources (Fish & Wildlife). She manages a team of professionals responsible for mitigating and rehabilitation of streams and wetlands. Her responsibilities include scoping of work and budget, scheduling subcontractors, communication with Fish & Wildlife, and invoicing.

Whitney served as project manager for a 1,500-acre construction project. She managed a large, multidisciplinary team, led communications with internal and external consultants, and worked closely with city officials to obtain the necessary permits and record survey plats. She maintained a \$140 million budget. She also completed quality assurance/quality control (QA/QC) and time-and-cost budgeting.

Permitting. Whitney works directly with mining companies in Kentucky, West Virginia, and Indiana to submit and obtain numerous mining applications and permits. She has been responsible for permitting surface- and underground mining operations. These mining operations required additional permits from the U.S. Army Corps of Engineers (USACE) and National Pollutant Discharge Elimination permits.

While working at the Kentucky DNR Division of Mine Permits, Whitney reviewed surface mining permits to ensure they met the appropriate regulations. She was responsible for reviewing each application that contained a coal waste-disposal impoundment, high-hazard dams, breakthrough potential, or mining near an impoundment, evaluating the proposal based on its complexity, and assigning the application to the most qualified reviewer. Whitney also maintained the “slurry list,” which listed each permitting action currently under review and all of the approved permitting actions. During her tenure with the Division of Mine Permits, Whitney reviewed approximately 115 applications dealing with coal waste structures and disposal. These permitting actions required reviewing stability analyses, seepage analyses, hydraulic modeling, dynamic analyses, pipe deflection analyses, and breakthrough analyses.



Stormwater Management. Whitney designed and permitted stormwater management features for land-development projects. Her work included reviewing governing agency regulations and designing detention and retention ponds based on those regulations. She developed a stormwater detention model for various phases of an ongoing construction project and was responsible for permitting Stormwater Pollution Prevention Plans.

Site Development. Whitney designed and permitted site plans for private developers, which included grading plans and storm sewer, sanitary sewer, and water main designs. She coordinated with city officials to obtain permits and approvals. Whitney also conducted QA/QC for engineering plans to ensure that the most cost-effective designs were implemented.

PROJECT EXPERIENCE

Civil Engineer Fee in Lieu of Eastern Kentucky, Department of Fish & Wildlife Resources, Kentucky. Whitney serves as the project manager for Fish & Wildlife. She manages a team of professionals responsible for mitigating and rehabilitation of streams and wetlands. Her responsibilities include scoping of work and budget, scheduling subcontractors, communication with Fish & Wildlife, and invoicing. She also assists in an After-Action Review. This includes reviewing previous stream and wetland mitigation designs and monitoring to determine the success of each site.

Security and Exchange Commission (SEC) SK-300 Technical Report Summary, Alliance Coal, LLC, Lexington, Kentucky. Whitney assisted in the preparation of 6 SK-1300 Technical Report Summary (TRS) required by the SEC. The TRS was required under Federal Regulations to report exploration results, mineral resources, and mineral reserves. The report included a detailed history of each site, mineral resource and reserve estimates, environmental requirements, and an economic analysis of the viability of each site. Whitney served as one of the Qualified Persons validating the information.

Calculation of Asset Retirement Obligations, Confidential Client, West Virginia. Whitney assisted in estimating the Asset Retirement Obligations for a coal company in West Virginia. The ongoing operations are covered by 59 Surface Mining Control and Reclamation Act (SMCRA) permits. She estimated the direct reclamation costs to satisfy the SMCRA, 402, and 404 permit conditions for those operations, which included surface mines, underground mines, processing facilities, and mine support structures. The estimate components included consideration for grading to achieve the Approximate Original Contour, pond removal, continued water monitoring with scheduled reductions in frequency, revegetation, costs for perpetual monitoring, stream reconstruction, and road removal.

Illinois Coal Basin Due Diligence, Confidential Client, Confidential. Whitney assisted in the due diligence of approximately 20 coal mine sites for possible purchase. The due diligence included researching each site to determine the extent of reclamation. This allowed her to calculate the direct reclamation cost for each site. The estimation components included consideration for grading, pond removal, continued water monitoring with scheduled reductions in frequency, revegetation, stream reconstruction, road construction, and removal.

Hominy No. 2 Surface Mine, Quinwood Coal Company, West Virginia. Whitney served as a project engineer who was responsible for all of the permitting required before mining. Permits from the West Virginia Department of Environmental Protection (WVDEP) Division of Mining Reclamation and USACE were required. To obtain these permits, a mining plan had to be designed that included a reclamation plan, sediment structure designs, excess spoil structures, water quality samples, and wetland and stream determination.

Quinwood No. 1 Haul Road, Quinwood Coal Company, West Virginia. Whitney served as a project engineer who was responsible for all of the permitting requirements for a proposed haul road. Permits from the WVDEP Division of Mining Reclamation and USACE were required. The haul road will be used to connect a surface and underground mining job. This project required coordination between all of the permits to ensure that the mining plans were feasible and the timing was accurate.

Carlisle Mine, Sunrise Coal, LLC, Sullivan County, Indiana. Whitney served as a project engineer who was responsible for permitting a 4,600-acre underground permit through the Indiana DNR. This project involved ensuring that the application met all of the current SMCRA regulations, the subsidence-control plan, water quality data, and groundwater protection.

Alden Resources, LLC, Corbin, Kentucky. Whitney is responsible for designing the sediment-control structures on Alden Resources, LLC mining permits. She works closely with the client to provide a suitable design that is feasible in the field and meets all SMCRA regulations.



Buckeye Impoundment Crest Raise Review, Kentucky DNR Division of Mine Permits, Perry County, Kentucky. Whitney was the engineer permitting reviewer who reviewed and ultimately approved a 100-foot stage increase to a slurry impoundment that did not have a working decant system. The proposal was for two 50-foot increases. Stability analyses for both stages were verified and reviewed to ensure that each stage met the required safety factor for the static and pseudostatic conditions. Hydraulic modeling for the probable maximum precipitation (PMP) event was reviewed to ensure that the impoundment had 3.0 feet of freeboard and could decant 90 percent of the PMP storm volume within 10 days per regulation. A pipe deflection analysis had to be conducted to ensure that the proposed decant pipe would not deflect more than 5 percent under the weight of the 100-foot impoundment raise.

Stacy Branch Mine Review, Kentucky DNR Division of Mine Permits, Perry County, Kentucky. Whitney was the engineer permitting reviewer who reviewed and approved a permit that proposed the fill placement optimization process. This process maximized the amount of spoil returned to the mine area while minimizing the amount of spoil placed into excess spoil disposal sites. This protocol was used to facilitate issuing a corresponding USACE 404 permit.

Camp 9 Slurry Impoundment Review, Kentucky DNR Division of Mine Permits, Union County, Kentucky. Whitney reviewed a horizontal and vertical expansion of a four-sided diked impoundment and the associated closure plan. Her review included stability analysis, seepage analysis, groundwater analysis, and hydraulic modeling.

Big Branch Impoundment, Kentucky DNR Division of Mine Permits, Knott County, Kentucky. Whitney reviewed a crest increase of an upstream impoundment. The review required that she conduct a finite element quake analysis to ensure that the impoundment met the regulatory requirements of the pseudostatic safety factor.



JAKE L. STEPHENS, PE

PROJECT ENGINEER

OVERVIEW

Jake Stephens is a seasoned Professional Engineer with experience in project and construction management, engineering design and design review, construction management, and safety and risk consulting. Jake has managed a wide range of projects throughout his career, including active and abandoned mine land projects, road-related and shared-use path projects, warehouse material handling and storage solutions, and residential and commercial construction projects. His expertise includes overseeing projects from inception to completion, construction oversight and inspector management, managing project budgeting, installation inspection and quality control, ensuring compliance with safety and environmental regulations, and collaborating with various stakeholders to achieve project goals. Jake has demonstrated strong leadership in developing accurate design plans, providing holistic designs that balance construction costs with maintenance, and ensuring installation meets design plans and specifications. With a comprehensive background in both the public and private sectors, Jake brings a wealth of knowledge and a proactive approach to every project he undertakes.

TECHNICAL EXPERTISE

- / Project Management
- / Engineering Design and Design Review
- / Construction Management and Oversight
- / Safety and Risk Consulting

EDUCATION

- / BS in Mining Engineering, University of Kentucky, Lexington, KY (2010)

REGISTRATIONS & LICENSES

- / Professional Engineer in Kentucky

CERTIFICATIONS & TRAINING

- / WV Underground Experienced Coal Miner
- / WV Surface Experienced Coal Miner
- / MSHA Approved Instructor (Unlimited, Surface and Underground)
- / OSHA 10-Hour Construction Industry
- / OSHA 10-Hour General Industry
- / Arkansas Workers' Compensation Commission Field Safety Representative
- / Texas Department of Insurance Loss Control Representative

WORK HISTORY

- / RESPEC (2024–Present)
- / Lexington-Fayette Urban County Government (2022–2024)
- / Advanced Handling Systems, LLC (2020–2022)
- / Lexington-Fayette Urban County Government (2018–2020)
- / RAME Contracting (2017–2018)
- / Central Mine Services, Inc. (2013–2017)
- / Alpha Natural Resources, Inc. (2011–2013)
- / Massey Energy Company (2007–2011)

TECHNICAL EXPERIENCE

Project Management. Jake has successfully managed projects of various types and sizes, from single multi-million-dollar projects to multiple projects at different stages of completion, all at once. Project management has included client coordination, estimating costs and obtaining project funding, obtaining and managing consultants and internal engineering staff to complete project design, design review for adherence to local, state, and federal regulations and guidelines, construction material submittal and review, managing construction inspectors and inspecting projects for adherence to design plans and specifications, project budgeting, invoicing, and change orders, and project closeout.

Engineering Design and Design Review. Jake has designed and estimated costs and reviewed project designs for abandoned mine land reclamation, coal slurry impoundments, active and future mining operations, commercial and residential construction, and warehouse material storage and handling projects. He has valuable experience reviewing project designs for accuracy and completeness, designing with consideration of construction and maintenance operations, and conformance with local, state, and federal regulations and design guidelines. His experience with projects from various industries has given him the ability to provide creative solutions and strategies for project designs.

Construction Management. Jake has experience managing material suppliers, site managers, inspectors, and contractors to ensure materials are received in a timely manner and installed per project drawings and specifications. He has experience coordinating installation on multi-disciplinary projects to ensure project completion, limiting hindrances to and from other trades. Jake has managed client relationships during installation to ensure satisfaction with the installation and facilitate any necessary design modifications or change orders while considering project budget and schedule considerations.

Safety and Risk Consulting. Jake has conducted numerous safety and risk audits within the mining and mining-related industries throughout the U.S. Safety and risk audits included interviewing safety management personnel, reviewing job safety processes and safety and risk programs, analyzing safety and insurance claim data, observing workplace conditions, and interviewing personnel and observing work habits. He has developed safety topics and training information and completed training for production and safety personnel for various clients.



PROJECT EXPERIENCE

Commissioners Lake, Pennsylvania Department of Environmental Protection (PA DEP) Bureau of Abandoned Mine Reclamation.

As the Project Engineer, Jake is responsible for designing a reclamation plan for this 275-acre property located near Mt. Carmel, PA with a history of significant underground and surface mining. Jake has collected and reviewed 100s of mine maps to identify possible abandoned mine land (AML) features and conducted field surveys to verify existence and location. Project design includes moving approximately 4 million cubic yards of material from 100+ acres of spoils to fill in a 140' deep, 20-acre lake to return the topography near to pre-mining conditions, and mitigating any observed mine adits, shafts, open portals, subsidence areas, dilapidated structures, open pits, hazardous water bodies, or any other abandoned mine-related features.

MacArthur Subsidence Phase III, West Virginia Department of Environmental Protection (WVDEP) Office of Abandoned Mine Lands and Reclamation.

This project, located in MacArthur, WV, includes reducing the potential of subsidence of structures from abandoned underground mining located as close as 20' to the surface. Jake is the Project Engineer and is responsible for project design, assisting WVDEP with bidding and contractor procurement, and monitoring construction representatives. He has assisted with analysis of subsurface drilling data for FLAC3D modeling to determine where subsidence is likely to occur and designed a drilling and grouting plan to help protect more than 250 structures that may be affected. Jake managed the completion of project documentation including drawings, specifications, realty agreements, and an engineer's estimate.

Sherwin North II, PA DEP Bureau of Abandoned Mine Reclamation. Jake serves as the Project Engineer responsible for analysis and design of reclamation of the Sherwin North II AML project located near Butler, PA. This project includes reclamation of an approximate 1-acre hazardous water body and 13-acre spoil area, where spoils will be used to fill in the hazardous water body and the site regrading to near pre-mining conditions. Jake coordinated with the property owner to ensure the design met the owners expectations while avoiding areas of concern.

Beckley Soccer Complex, WVDEP Office of Abandoned Mine Lands and Reclamation. The Beckley Soccer Complex project is an AML project located near Beckley, WV. The project includes injecting grout beneath a parking lot to mitigate subsidence due to underground coal mining below. Jake conducted an in-depth review of design plans, project specifications, and the engineer's estimate for design accuracy and completeness. Review included erosion and sediment controls, stormwater conveyance piping and structures, earthwork, parking lot ADA compliance, drawings, specifications, and estimated project quantities and costs.

Summerlee Water Treatment, WVDEP Office of Abandoned Mine Lands and Reclamation. This project includes remediation of an existing acid mine drainage (AMD) passive treatment system that was no longer effectively treating water and releasing poor quality water with low pH and high metal concentrations. Jake evaluated the existing treatment system, which included limestone conveyance ditches and auto flushing vertical flush ponds, and analyzed water monitoring data to develop improvements and additions. Jake was responsible for developing design plans, project specifications, estimating project costs, assisting WVDEP with bidding and procurement, and monitoring construction representatives.

Morris Creek Water Treatment, WVDEP Office of Abandoned Mine Lands and Reclamation. As Project Engineer, Jake is responsible for analysis, design, and construction management of the Morris Creek Water Treatment project. This project includes wet mine seals and seeps through mine refuse along a hillside that are discharging AMD into the nearby creek. Jake was responsible for reviewing the existing passive treatment system failures and designing improvements or additions and a maintenance plan to treat the AMD effectively. The existing system process and water monitoring data were analyzed to determine an effective treatment system and adequate sizing. Jake also managed realty work, permitting, assisting WVDEP with pre-bid and pre-construction conferences and construction procurement, and managed construction representatives to project completion.

Logan Run Highwall, WVDEP Office of Abandoned Mine Lands and Reclamation. This project includes reclamation design of approximately 3,000 LF of dangerous highwall averaging 50' in height utilizing adjacent spoil areas as backfill, created from an abandoned surface mining operation. Jake is responsible for managing the completion of an environmental assessment and associated surveys and studies, realty work, analysis and design, project specifications, project costs, assisting with bidding and construction procurement, and managing construction representatives to project completion.



RYAN HALL, PE

PROJECT ENGINEER

TECHNICAL EXPERTISE

- / Special Inspections
- / Project Management
- / Geotechnical Engineering
- / Communication & Documentation

EDUCATION

- / BS in Biosystems and Agricultural Engineering, University of Kentucky, Lexington, KY (2019)

REGISTRATIONS & LICENSES

- / Professional Engineer in Kentucky (No. 39484)

PROFESSIONAL MEMBERSHIPS

- / American Concrete Institute (ACI) (2019–2020)

CERTIFICATIONS & TRAINING

- / International Code Council (ICC), Master of Special Inspections (No. 9315451)
- / ACI Field Testing Technical – Grade 1
- / ACI Concrete Construction Special Inspector
- / Post-Tensioning Institute Level 2 Unbonded PT Installation

WORK HISTORY

- / RESPEC (2025–Present)
- / Solid Ground Consulting Engineers, PLLC (2021–2025)
- / Foundation Systems Engineering, P.C. (2019–2021)

OVERVIEW

Ryan Hall is a skilled Professional Engineer with experience in geotechnical and construction engineering. His roles have encompassed performing special inspections across various stages of construction including earthwork, concrete reinforcement, steel erection, and more. Ryan has managed projects involving geotechnical exploration, overseeing drilling operations, soil sample testing, and providing critical recommendations for foundation construction. In his capacity as an Inspector and Project Manager, he effectively scheduled and conducted inspections for a team of 14 inspectors while maintaining thorough documentation and clear communication with clients and design teams. Known for his strong time management and customer service skills, Ryan excels in interacting with contractors and clients, ensuring seamless project execution and high-quality results.

TECHNICAL EXPERIENCE

Special Inspections. Ryan has conducted special inspections in construction areas ranging from deep foundation installation and design to earthwork, to concrete and steel, to framing installation. Ryan has successfully conducted special inspections for projects of various types and sizes and across multiple phases of construction, ranging from small businesses to schools and hospitals to parking garages. Special inspections require extensive knowledge of International Building Code (IBC) standards as well as the appropriate state and local regulations regarding construction of commercial and public buildings as well as knowledge of engineering design and how the design is affected by these regulations.

Project Management. Ryan has successfully managed projects of various types and sizes, at one point managing projects totaling approximately \$1 billion in construction costs in different phases of construction at the same time. Project management has included client coordination, estimating costs, obtaining and managing consultants and internal engineering staff to assist with project design, design review for adherence to local, state, and federal regulations and guidelines, managing construction inspectors and inspecting projects for adherence to design plans and specifications, project budgeting, invoicing, and change orders, and project closeout.

Geotechnical Engineering. Ryan has been responsible for the completion of geotechnical drilling investigations for numerous projects in seven different U.S. states including West Virginia and Kentucky. This has included all phases of geotechnical exploration, from analyzing the local geological elements to selection of boring locations, sampling and analysis of on-site materials, to providing foundation recommendations for the proposed structure based upon the materials on site and the requirements for the project. He has experience both in the field operating a drill rig and in two separate soils labs running the analysis personally and in conjunction with other professionals in the field of soil analysis, geologists, and other engineers.

Communication & Documentation. Ryan has extensive experience collaborating with clients and design teams, acting as an intermediary between contractors and design professionals and clients to ensure the smooth completion of projects. He has managed client and local engineering relationships before, during and after construction to provide a quality product for the client. Additionally, he has been responsible for reporting to the local and state building officials for numerous projects to ensure compliance with local, state, and federal standards.



PROJECT EXPERIENCE

Crafts Run, West Virginia Department of Environmental Protection (WVDEP), Morgantown, West Virginia. Ryan has assisted with communication between the design team and personnel with WVDEP, property owners, and subcontractors. Ryan has also helped to complete preliminary engineering design work by assisting with the hydrology analysis, and ditch design of the site and by coordinating the creation of the site geotechnical drilling plan. Once drilling begins, Ryan will help oversee the progress of drilling and conduct analysis of the soils on site based upon our findings. Ryan has performed an in-person evaluation of the site in coordination with subcontractors and WVDEP personnel to determine drill boring locations as well as site access for the drilling crew.

Commissioner's Lake, Pennsylvania Department of Environmental Protection (PA DEP), Mt Carmel, Pennsylvania. Ryan has helped with the creation of a site geotechnical drilling plan and coordination of drilling proposals for the site. Once the site moves into the active phase of geotechnical evaluation, Ryan will oversee the progress of the drilling on site for the design team and conduct an analysis of the on-site soils based upon the results obtained during the drilling process. Ryan has also assisted with the identification of abandoned mine lined (AML) features on the site by performing an on-site evaluation with fellow RESPEC personnel to identify existing and new AML features as required in the scope of work for this project. This evaluation then led to Ryan leading the creation of a document outlining our evaluation of the AML features on the site based on the site visit and review of historical mine mapping.

Shaft No. 6 Evaluation, PA DEP, Newport Township, Pennsylvania. Ryan assisted in evaluating the Glen Lyon No. 6 Shaft, a geotechnically complex and historically significant mine feature adjacent to public housing. He contributed to developing the work plan, coordinated subcontractors, and supported the engineering design. This project aimed to ensure site safety by enabling safe drilling for geophysical evaluation and preventing future subsidence.

Bethany Highwall, WVDEP, Brooke County, West Virginia. Ryan created a geotechnical drilling plan and provided preliminary regrading designs for highwall stabilization. He also helped develop grading plans for presentation to WVDEP personnel. When the project enters the drilling phase, Ryan will oversee drilling and analyze on-site soils to inform the final design.

Logan Run Highwall, WVDEP, Brooke County, West Virginia. Ryan contributed to the geotechnical drilling plan and permitting efforts for this highwall and slide stabilization project. He also assisted with floodplain-related permitting near the site's edge and access points. When drilling begins, Ryan will oversee field activities and analyze the resulting soil data.



DAVID P. PURKEY, EI

STAFF ENGINEER

TECHNICAL EXPERTISE

- / Slope Stability Solutions
- / Drainage Systems Design
- / Earthwork and Grading
- / Landslide Mitigation
- / Reinforced Concrete Design
- / Concrete Placement and Design
- / Stormwater Design
- / Site Design

EDUCATION

- / BS in Civil Engineering, West Virginia University, Morgantown, WV (2006)
- / BS in Civil Engineering Technology, Fairmont State University, Fairmont, WV (1990)
- / AS Architecture Technology, Fairmont State, University, Fairmont, WV (1990)

CERTIFICATIONS & TRAINING

- / Engineering Intern in West Virginia (No. 9271)

WORK HISTORY

- / RESPEC (2025–Present)
- / FirstEnergy Service Co. (2008–2025)
- / West Virginia University (2007–2008)
- / City of Morgantown Engineering Dept. (2004–2008)
- / Morgantown Utility Board (2002–2004)
- / CTL Engineering of WV, Inc. (1995–2002)

OVERVIEW

David Purkey is an accomplished civil engineer known for his expertise in earthwork, slope stability, and drainage design. Throughout his career, he has managed complex engineering projects, successfully resolving landslides and erosion issues with innovative, cost-effective solutions. He has been instrumental in ensuring structural stability and optimizing project outcomes. David has also shared his knowledge through teaching CAD, enhancing the skills of upcoming engineers. His contributions to municipal engineering include developing city guidelines and improving utility systems. David's proficiency in software tools, team management, and project execution highlights his ability to deliver substantial value and success in the engineering field.

TECHNICAL EXPERIENCE

Permitting: David has worked directly with West Virginia Department of Environmental Protection (WVDEP) and with the Pennsylvania Department of Environmental Protection to obtain National Pollutant Discharge Elimination System permits for projects. David has been responsible for plan development, reviews, drainage calculations, and erosion and sediment control design and computations for project work related directly to mining operations and construction projects. The permitting also included applications with the U.S. Army Corps of Engineers (USACE).

While working in a former role, David worked on multiple Abandoned Mine Land projects. The projects included earthwork sites of 2.3 million cubic yards of earth moved and placed. This also included computations and design of drainage structures and facilities. He was responsible for reviewing and designing various plans, slope stability analyses and drainage designs. The work included preventive measures to avert future landslides and erosion problems that can occur. David also developed a channel calculator that can design channel size and lining for reaches of the channels saving many hours of tedious work and minimizing errors. The channel calculator provides the ability to minimize quantities of grout and riprap used by using less expensive materials. David also solved problems with engineering experience in earthwork. In one instance where a caisson foundation was being placed in fill and near slide areas, he made a plan to lower the entire structure 10 feet and socket the foundation into original earth to avert lateral forces causing the structure to lean. This saved hundreds of thousands of dollars due to be able to use the same structure on the foundation.

Project Management: David has served as the project manager on various projects to ensure plans and specifications were being followed and to ensure that the quality of work was sufficient. He also worked directly with the contractors and other agencies to ensure that environmental compliance was being maintained and to obtain a higher level of quality in the work. David has overseen the construction and placement of soils that were used to build large pads with quantities of earthwork in excess of 2.3 million cubic yards.

David also has extensive work with concrete and reinforced concrete. Projects worked on involved thousands of cubic yards of concrete to be placed for foundations. This presented challenges with timing and "Cold-Joints", shear strength, and the quantities of concrete to be placed. Chemical additives were introduced to delay set times that would allow other concrete trucks to bring and place concrete before it would set.



PROJECT EXPERIENCE

Crafts Run, WVDEP, Morgantown, West Virginia. David managed design and permitting for a complex abandoned mine lands reclamation site that included a dangerous impoundment, 1,800 feet of clogged stream, open mine portals, highwall hazards, and spoil areas. His work involved wetland delineation, utility verification, stakeholder coordination, and preparation of construction-ready bid documents. The final plan addressed both safety and environmental restoration.

Wades Run Dangerous Embankment Phase II, WVDEP, Monongalia County, West Virginia. David led design and permitting for the removal of failing earthen embankments, stream restoration, and regrading of a former mine site used for equipment storage. His coordination included geotechnical investigation, wetland mitigation planning, and stakeholder engagement. The project mitigated landslide risk and restored environmental safety.

Beech Bottom, WVDEP, Brooke County, West Virginia. David oversaw site investigations and grading design for over 1.5 miles of highwall and spoil piles. His responsibilities included developing a reclamation plan with drainage channel design, sediment control, and coordination of geotechnical and environmental assessments.

Clarksburg Glenwood Hills Subsidence, WVDEP, Harrison County, West Virginia. David supported the design and planning of a grout injection project to stabilize subsiding land beneath approximately 60 homes. He helped develop stabilization strategies, coordinate field investigations, and prepare cost estimates and construction specifications for this 30-acre site.

Traffic Engineer for the Traffic Commission, City of Morgantown, Morgantown, West Virginia. David conducted traffic studies and mapped solutions for numerous traffic problems in Morgantown. Morgantown is a university city, and pedestrian and university traffic play major roles in the traffic problems. This also includes situations arising from student housing areas.

Morgantown Utility Board Engineer City of Morgantown, Morgantown, West Virginia. David designed stormwater, sanitary, and potable water systems. He developed a program to estimate within 2 psi of the water pressure at locations across the city.

White Hall Junction Reconductor Project: Geotechnical Review, FirstEnergy, White Hall, West Virginia. This project eliminated the need for the installation of two new transmission structures. A geotechnical review of the area and survey with fieldwork eliminated the clearance concerns for replacing two transmission structures at the cost of approximately \$800,000.00.

Gilboa to Kanawha Structure #25, FirstEnergy, Gilboa, West Virginia. The terrain in this heavily mined area where the 69,000-volt line sets now is extremely aggressive. Because of the possible danger and cost, a new line route was provided where access was available, and repairs and maintenance would be much safer. The cost savings was half the cost of the project.

Snowy Creek-Presco 69 kV Structure #62 Landslide and Structure Replacement, FirstEnergy, Preston County, West Virginia. David was requested to review this site and found a ± 300 -foot landslide and a severely damaged H-Frame Wood Pole structure #62. Both poles were cracked and "bowed" severely. The landslide had moved the structure downslope approximately 10 to 15 feet, indicating that the slide was fairly deep (8 to 10 feet deep). David derived a solution to move the structure out of the slide area and save more than \$400,000.00 in engineering and environmental fees. He managed the project by getting the access road built separately so that the time duration of the project to remove and replace three structures was minimized.

Lordstown-Sammis 345kV Structure #40060 Streambank Erosion, First Energy, Salem, Ohio. This project required a geotechnical solution to design a new streambank to prevent further "scouring" of streambanks and protect the transmission structures. The project included rebuilding ± 200 feet of streambank and environmental permitting. Multiple similar projects were done in the FirstEnergy service territories and still exist today.

Flint Run Substation MonPower 500 kV and 138 kV Substation Pad and Removal and Replacement of $\pm 750,000$ Cubic Yards (CY) of Earth, FirstEnergy, West Virginia. This project consisted of 1.5 miles of access road and removing $\pm 850,000$ CY of material to make the substation pad. This work included drainage review and design. Multiple landslides on site occurred during and after the construction. The project was successfully completed with the substation in service.

Tower Structural Steel and Specification Program to Automate the Emergency Restoration Process, FirstEnergy, Multiple States. David successfully developed a program to provide a condensed version of all steel, hardware, insulators, and bolts for the Trans-Allegheny Interstate Line (TrAIL) and Sargent & Lundy 500 kV towers. The program is in use today.



Flint Run to Waldo Run Structure #2 Foundation Redesign, FirstEnergy, West Virginia. David successfully redesigned the Structure #2 foundation because of slides that occurred within 15 feet of the structure foundation. The original foundation design had the foundation entirely within the fill. It had no socket into the original earth. The stability of the slopes was not acceptable for an angled structure. The new foundation was redesigned and placed into the original earth with a 19-foot socket minimum.

Goff Connector Landslide Design and Analysis, FirstEnergy, Harrison County, West Virginia. Work included the design and construction of the Goff Connector Landslide. It was found that the contractor placed more than 8 tons of organics into the fill causing a landslide. The slide was mitigated by a geotechnical solution.

Sammis Power Station – Lordstown-Sammis 345 kV Landslide, FirstEnergy, Stratton, Ohio. The structures are just outside the station. A smaller landslide had occurred and could have led to more significant problems. David was asked to design the drainage and subsurface seeps impacting the area. Some earth movement had occurred, which was dressed, and the drainage plan was implemented. The area is steep and too tight against the structure to get heavy equipment in behind the structure. The movement was not large and was of insufficient mass to damage the structure. The construction was completed, and the system seems to be functioning well.

Waldo Run North Side Drainage Design, FirstEnergy, Doddridge County, West Virginia. This project was a consultant design correction. Stormwater was collected and let over hillsides that were problematic. The water would eventually erode the hillside and, on multiple occasions, cause landslides. This design provided more controlled flow paths to the natural waterways. Channels were designed to convey the waters to the natural waterways and to account for any additional drainage from the substation in the future.

Waldo Run Access Road Design and Construction, FirstEnergy, Doddridge County, West Virginia. David designed the new Waldo Run Access Road and oversaw construction during the summer of 2020. The existing road was not suitable for the heavy articulating trucks to navigate, and the slope on the part of the existing road was greater than 25 percent. The grade was revised, and a slope closer to 16 percent was made. Approximately 2,000 CY of earth was removed to lower the road to approximately the substation pad elevation. The eastern side slope (1.8H:1V) was protected so as not to compromise the hillside. This hillside should not have been left so steep. The road at the beginning of the steeper section was dropped ± 11 feet, which has improved the operators' abilities to navigate easily on this roadway.

Right-of-Way/Encroachment Reviews, First Energy, Multiple Locations. David has completed more than 2,400 reviews since 2015 of pipelines, buildings, pools, and many other violations of the easements having FirstEnergy transmission lines within. The work included legal and technical reviews of the easement.

PUBLICATIONS & PRESENTATIONS

Purkey, David P, 2011. *Concrete Lessons - TrAIL 500 kV Line Project*. AEP, March 10.



LAUREN PENNINGTON

MINING ENGINEER

TECHNICAL EXPERTISE

- / Reclamation Design
- / Permitting
- / After-Action Review
- / Feasibility Studies and Due Diligence
- / Critical Minerals and Rare Earth Elements
- / Mine Planning
- / Circuit Optimization

EDUCATION

- / BS in Mining Engineering, University of Kentucky, Lexington, KY (2022)

PROFESSIONAL MEMBERSHIPS

- / Mu Nu Gamma, Mining Engineering Honor Society, University of Kentucky
- / Society of Mining, Metallurgy & Exploration (SME)
- / Women in Mining

WORK HISTORY

- / RESPEC (2021–Present)
- / University of Kentucky, Mining Engineering Department (2019–2022)

OVERVIEW

Lauren Pennington has experience with environmental permitting, reclamation design, feasibility and due diligence studies, and critical minerals. She has designed numerous drainage control plans for mines throughout Kentucky, mitigation plans for abandoned mine lands, and worked on projects focused on extracting rare earth elements from coal and coal by-products. Work for these projects includes running radio frequency identification (RFID) tracer tests on heavy media cyclones, setting up full plant circuit tests, and comparing stack sizers and flotation devices. Lauren has worked with the Kentucky Department of Fish and Wildlife Resources to review and summarize existing stream and wetland mitigation plans and monitor the sites after construction. She also has experience with AutoCAD Map 3D, Carlson, Civil 3D, Maptek Vulcan, SEDCAD, AggFlow, and AMD Treat.

TECHNICAL EXPERIENCE

Reclamation Design. Lauren has worked on various projects in West Virginia and Pennsylvania, performing site evaluations for abandoned mine lands. As a proficient project engineer specializing in drainage design, permitting, and strategically placing ditches and culverts, Lauren demonstrates comprehensive expertise in overseeing water management projects, using SEDCAD and Carlson design software. Additionally, Lauren has worked on highwall regrades in Pennsylvania and West Virginia, successfully returning the land to its approximate original contour.

Permitting. Lauren works with mining companies in Kentucky to submit and obtain numerous mining applications and permits. She has assisted in permitting for surface- and underground-mining operations. She has also worked on developing drainage design systems for multiple coal operations. Lauren has also completed numerous National Pollutant Discharge Elimination System permits in West Virginia and Pennsylvania.

After-Action Review. Lauren works with the Kentucky Department of Fish and Wildlife Resources to conduct After-Action Reviews on existing wetland and stream mitigation sites. She reviews and summarizes engineering designs, mitigation proposals, and monitoring reports for numerous sites and projects.

Feasibility Studies and Due Diligence. Lauren has assisted in feasibility and due diligence studies for various mineral commodities, including crushed stone, gypsum, bauxite, potash, and construction sand. She has also performed transportation, market, and financial feasibility analyses based on enterprise and royalty approaches.

Critical Minerals and Rare Earth Elements. Lauren assisted with a grant-funded project for the U.S. Department of Energy to identify and prioritize critical mineral and rare earth element resources from coal-based sources. Work included collaboration with the West Virginia University research laboratory.

Mine Planning. Lauren has assisted in the development of the mine plans for multiple international quarries.

Circuit Optimization. Lauren has run RFID tracer tests on 48-inch heavy media cyclones to determine changes in percent non-magnetics in media, cyclone diameters, and media-to-coal ratios. She has also collected samples and performed analyses to build a report suggesting improvements for the overall functionality of the coal processing plant.



PROJECT EXPERIENCE

Price Hill Complex Pond Cleaning, West Virginia Department of Environmental Protection, West Virginia. Lauren assists with designing the erosion and sediment-control plan for the pond closure at Price Hill. She collaborates with the client and team members to provide a suitable design that is feasible in the field and meets all regulations. She also completed all permitting requirements for the project. This involved conducting thorough site evaluations, assessing potential sources of pollution, and developing a comprehensive stormwater management plan. Lauren meticulously prepared all necessary documentation, ensuring compliance with regulatory requirements.

Northwest Milton, Pennsylvania Department of Environmental Protection, Pennsylvania. Lauren works on the highwall regrade for Northwest Milton, returning the land to its approximate original contour. This involves site assessments, strategic planning, and using AutoCAD Map 3D to reshape the terrain, ensuring stability and promoting natural drainage.

Beech Bottom, West Virginia Department of Environmental Protection, West Virginia. Lauren works on the Beech Bottom project, regrading the highwall to return the land to its approximate original contour. This involved conducting site assessments, strategic planning, and using AutoCAD Map 3D to reshape the terrain, ensuring stability and promoting natural drainage.

Beckley Soccer Complex, West Virginia Department of Environmental Protection, West Virginia. Lauren plays a role in the Beckley Soccer Complex project by completing the National Pollutant Discharge Elimination System (NPDES) permit. This task required her to perform detailed site evaluations, identify potential pollution sources, and create an effective stormwater management plan. Lauren ensured all documentation met regulatory standards, addressing environmental concerns and securing the necessary approvals. Her proficiency in drainage design and water management was essential to the project's success.

Crown Hill, West Virginia Department of Environmental Protection, West Virginia. Lauren works on the Crown Hill project, where she successfully completed an NPDES permit. This involved conducting thorough site evaluations, assessing potential sources of pollution, and developing a comprehensive stormwater management plan. Lauren meticulously prepared all necessary documentation, ensuring compliance with regulatory requirements. Her expertise in drainage design and water management was crucial in addressing environmental concerns and securing the permit for the project.

Alden Resources, LLC, Corbin, Kentucky. Lauren assists with designing the sediment-control structures on Alden Resources mining permits. She collaborates with the client and team members to provide a suitable design that is feasible in the field and meets all Surface Mining Control and Reclamation Act (SMCRA) regulations.

Alliance Coal, LLC, Lexington, Kentucky. Lauren assists with designing the sediment-control structures on Alliance Coal mining permits. She collaborates with the client and team members to provide a feasible design in the field that meets all SMCRA regulations.

JRL Coal, Inc., Coalgood, Kentucky. Lauren assists with designing the sediment-control structures on JRL Coal mining permits. She collaborates with the client and team members to provide a feasible design in the field that meets all SMCRA regulations.

Civil Engineer Fee in Lieu of Eastern Kentucky, Department of Fish and Wildlife Resources, Kentucky. Lauren works with the Kentucky Department of Fish and Wildlife Resources to conduct After-Action Reviews on existing wetland and stream mitigation sites. She reviews and summarizes engineering designs, mitigation proposals, and monitoring reports for numerous sites and projects to determine the success of each site. She also assists in managing a team of professionals responsible for mitigating and rehabilitating streams and wetlands.



SHARON ARRIETA RUIZ

ENGINEER

OVERVIEW

Sharon Arrieta Ruiz is a mining engineer with a strong focus on sustainable practices and data-driven decision-making. With expertise in evaluating renewable energy installation on previously mined lands, she leverages her analytical skills to enhance resource optimization and operational efficiency. Sharon has excelled in roles requiring strategic coordination of educational and professional development programs, demonstrating her ability to manage complex projects and foster collaboration among diverse stakeholders. Her proficiency in advanced software tools and bilingual Spanish and English skills position her as a versatile and effective communicator in both technical and cross-functional environments. Recognized for her outstanding achievements, Sharon actively participates in professional forums and volunteer initiatives, contributing to the advancement of industry knowledge and community engagement.

TECHNICAL EXPERTISE

- / Management
- / Sustainable Post-Reclamation Use
- / Data-Driven Decision-Making
- / Resource Optimization Strategies
- / Advanced Software Proficiency

EDUCATION

- / MS in Mining Engineering and Management, South Dakota School of Mines & Technology (SDSMT), Rapid City, SD (2024)
- / BS in Mining and Metallurgical Engineering, National University of Colombia, Medellin, (2018)

PROFESSIONAL MEMBERSHIPS

- / WIM, Student Member (since 2024)
- / SME, Student Member (since 2023)
- / Association of Professionals of the Colombian Mining Sector (APMC) Member (since 2018)

CERTIFICATIONS & TRAINING

- / MSHA Part 48 New Miner Underground Training
- / Management and Data Analytics (Excel & Power BI)
- / Design and Construction of Underground Excavations

HONORS & AWARDS

- / Outstanding MS Graduate Award, Mining Engineering and Management Department (2024)

WORK HISTORY

- / RESPEC (2024–Present)
- / SDSMT (2023–2024)
- / Holcim ABS (2022)
- / Society of Mining Professors (2021)
- / Vista Higher Learning & Lyft (2019–2020)
- / APMC (2018–2019)

TECHNICAL EXPERIENCE

Management. Sharon has extensive experience in project coordination and administrative management within both academic and corporate settings. As an Assistant Coordinator at the Office of Professional Education at SDSMT, she played a key role in organizing professional development programs, managing logistics, and ensuring smooth operations. Her background also includes a role as an Engineer I/ Administrative Assistant at APMC, where she was responsible for overseeing administrative processes, maintaining project documentation, and supporting engineering operations. These roles have honed her organizational, leadership, and problem-solving skills, enabling her to efficiently manage projects and resources in complex environments.

Renewable Energy Evaluation. With a master's thesis focused on "Evaluating Renewable Energy Installation Potential on Previously Mined Lands," Sharon has developed a strong foundation in renewable energy assessment and sustainable mining practices. Her research involved analyzing land rehabilitation strategies, assessing the feasibility of solar and wind energy projects, and integrating sustainability principles into post-mining land use. This work highlights her commitment to environmentally responsible mining solutions and her ability to bridge the gap between traditional resource extraction and modern renewable energy initiatives.

Data-Driven Decision-Making. Sharon has leveraged data analytics and business intelligence to drive informed decision-making in multiple roles. As a Data Analyst at Holcim ABS, she worked with large datasets to optimize operations, identify trends, and improve efficiency in business processes. Her expertise in Excel, Power BI, and SAP has also enabled her to develop data visualization tools and performance metrics, facilitating strategic planning and operational improvements. Her analytical approach ensures that organizations can make fact-based, efficient, and impactful decisions in both technical and business contexts.

Resource Optimization Strategies. Sharon has gained valuable experience in resource management and optimization through her work in mining engineering and business operations. She has worked with mine planning software such as Vulcan, Deswik.CAD, and Deswik.Sched, which are essential for optimizing resource extraction, scheduling, and operational efficiency. Her academic background and role at the SDSMT also allowed her to engage in economic and financial evaluations of mining projects, further strengthening her ability to implement cost-effective and sustainable resource management strategies.

Advanced Software Proficiency. Sharon possesses strong technical expertise in advanced mining and engineering software, making her a versatile professional in the field. She is proficient in industry-



standard tools such as Vulcan, Deswik.CAD, Deswik.Sched, TALPAC, and VentSim for mine design, scheduling, and ventilation analysis. Additionally, she has experience with AutoCAD, MATLAB, and SAP, enhancing her ability to perform detailed engineering calculations, modeling, and simulations. Her broad software skillset, combined with her analytical mindset, enables her to tackle complex technical challenges with precision and efficiency.

PROJECT EXPERIENCE

MacArthur Subsidence Phase III, West Virginia Department of Environmental Protection (WVDEP), MacArthur, West Virginia.

Sharon served as a project support engineer involved in the research and assessment of legal ownership of properties located within the project area, by conducting a thorough search of deed records at the respective county courthouse and providing copies of the legal documentation to substantiate legal ownership findings. Responsibilities included collaborating with property owners and stakeholders, gathering site data to support access rights, and ensuring all realty considerations aligned with reclamation plans and funding requirements. She also assisted in contacting the landowners to acquire all Rights of Entry, including Exploratory Rights of Entry, Construction Rights of Entry, and temporary and permanent ingress/egress rights for projects. She also provided progress information on the WVDEP's Real Estate Representative regarding the progress of landowner negotiations, landowner questions to be addressed, and the status of landowner agreements.

Commissioner's Lake, Pennsylvania Department of Environmental Protection (PA DEP), Bureau of Abandoned Mine Reclamation, Pennsylvania.

Sharon supported the identification and documentation of cultural, environmental, and community resources, along with hazardous features within the project area. Responsibilities included data collection, mapping support, and coordination with internal teams to ensure all site features were accurately inventoried and considered during reclamation planning.

Sherwin North II, PA DEP, Butler, Pennsylvania. Sharon assisted in the preparation and submission of a National Pollutant Discharge Elimination System permit application. Collaborated with senior engineers to evaluate water discharge points, gather water quality sampling data, and compile necessary documentation to meet state and federal permitting requirements.

PRESENTATIONS

Arrita Ruiz, Sharon, 2024. Evaluating Renewable Energy Installation Potential on Previously Mined Lands. *MINEXCHANGE SME Annual Conference & Expo*, Phoenix, Arizona.



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AARON STRICKLAND

PROJECT MANAGER



TECHNICAL EXPERTISE

- / Project Management
- / Civil Construction Oversight
- / E&S Inspection/Compliance Monitoring
- / Slope Stability and Compaction Testing
- / Subsurface/Geotechnical Investigation
- / Aquifer Testing
- / Surface Water Sampling/Measurement
- / Heavy Equipment Operation/Heavy Excavation Supervision

EDUCATION

- / BA in History and Religious Studies, West Virginia University, Morgantown, WV (2004)

CERTIFICATIONS & TRAINING

- / EQT Enviro H&S Upstream Test
- / EQT E&S Compliance Program
- / Spill Policy SOP Training
- / PEC Safeland Orientation
- / OSHA-30 Construction Safety & Health
- / EnviroCert International, Inc., Qualified Stormwater Manager

WORK HISTORY

- / RESPEC (2024–Present)
- / EARTHRES (2012–2024)*
- / Strickland Consulting (2009–2012)
- / Kanawha Stone (2005–2009)

*RESPEC acquired EARTHRES in 2024.

OVERVIEW

Aaron brings more than two decades of expertise in mining, heavy excavation, and civil site construction, with 15 years dedicated to oil and gas industry projects across West Virginia, Pennsylvania, and Ohio. He has managed and overseen complex civil construction operations, including well pad and compressor station builds, road improvements, and installation of Post-Construction Stormwater Management (PCSM) systems. His technical background includes erosion and sediment control inspection, compliance monitoring, slope stability assessments, engineered fill evaluation, and both geotechnical and subsurface investigations. Aaron coordinates multi-disciplinary teams, ensures regulatory compliance, optimizes site safety, and consistently delivers projects on schedule and within budget. His hands-on experience with heavy equipment operations, aquifer testing, and surface water sampling enables him to bridge field operations with effective project management.

Rostosky New Build Project – O&G Well Pad Construction, EQT, Pennsylvania. Aaron served as construction oversight lead for the Rostosky New Build Project, a complex well pad development that required deep keyway excavations exceeding 30 feet. He managed all phases of excavation, including layout, benching, slope stabilization, and the installation of engineered fill in accordance with design and geotechnical specifications. He conducted detailed soil classification and compaction testing to verify material suitability, documenting results for quality control and regulatory compliance. Aaron ensured adherence to safety protocols for deep excavations by implementing trench protection systems, monitoring slope stability, and planning for hazard mitigation. He worked closely with field crews to adapt excavation plans based on real-time soil analysis, groundwater conditions, and weather impacts. The project was completed on schedule with a zero-incident safety record and full compliance with all environmental and regulatory requirements.

Wetzel–Tyler Road Construction – Quality Control & Field Staff, Antero, West Virginia. As Project Manager for quality control and field staff, Aaron led a multi-mile road construction project supporting oil and gas operations in Wetzel and Tyler Counties. He coordinated daily with field staff, contractors, and client representatives to ensure work aligned with engineered design specifications and met or exceeded regulatory requirements. Aaron managed on-site inspection and documentation of grading, drainage installation, and compaction activities, maintaining quality control throughout each phase. He provided rigorous safety oversight, conducting hazard assessments, implementing traffic control measures, and leading safety briefings for personnel and the public. He collaborated with environmental compliance teams to integrate erosion and sediment control measures, ensuring the project met all permitting requirements. The project was delivered on schedule with zero safety incidents and full regulatory compliance, meeting client expectations for quality.

Tomcat Well Pad Construction – Construction Quality Assurance & Field Staff, EQT, Pennsylvania. Aaron managed quality control for the Tomcat Well Pad Construction, focusing on the implementation of newly required PCSM features. He oversaw the installation of a new liner system, ensuring subgrade preparation, liner placement, and seam integrity met updated environmental standards. Aaron coordinated with design engineers, environmental specialists, and construction crews to integrate new requirements into the project schedule without delay. He directed field inspections and documented compliance with regulatory and manufacturer specifications, including anchoring, overlap, and protection layer installation. Aaron maintained strict compliance with stormwater regulations and introduced proactive solutions to evolving site conditions. Safety was prioritized during liner installation through hazard controls and close monitoring of equipment operation. The project was delivered to

specification, fully compliant with updated regulatory requirements, and achieved a zero-incident safety record.

Haggard Well Pad Construction – Construction Quality Assurance & Field Staff, EQT, West Virginia. Serving as Project Manager for the Haggard Well Pad Construction, Aaron oversaw all project phases from planning to completion. He introduced a Miramesh slope stabilization process that was new to the client, applying it to engineered fill slopes to enhance soil retention and prevent erosion. Aaron directed the installation, ensuring proper anchoring, overlapping, and tensioning according to engineering specifications. He conducted regular inspections and compaction testing to verify slope stability and coordinated with field crews and geotechnical engineers to adapt methods to site-specific conditions, moisture content, and weather impacts. Throughout the project, Aaron maintained a zero-incident safety record and delivered a high-quality result that exceeded client expectations while complying fully with all regulations.

Baby Bear Slip Repair, EQT, Pennsylvania. As Project Manager for the Baby Bear Slip Repair, Aaron led all aspects of site stabilization and earthwork. He directed adjustments to groundwater management, including dewatering, drainage controls, and subsurface flow mitigation to maintain slope stability during construction. Aaron supervised fill placement to restore slope integrity, ensuring compaction, grading, and alignment with design specifications. He continuously monitored slope performance, working closely with engineers to adapt construction methods in response to changing soil and groundwater conditions. Aaron enforced strict safety protocols for personnel and equipment, successfully completing the project with zero incidents while delivering a stable slope that met all regulatory and client requirements.



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TERRY SCHMIDT, PE

VICE PRESIDENT OF ENGINEERING



TECHNICAL EXPERTISE

- / Mine Facility Design, Permitting, Reclamation, & Evaluation
- / Land Development Layout, Design, & Permitting
- / NPDES Evaluation, Permitting, & Negotiation
- / Mine Impacted Water Passive & Active Treatment Design & Evaluation
- / Construction Management and CQA
- / Litigation Support

EDUCATION

- / MS in Mining Engineering, Pennsylvania State University, Philadelphia, PA (1994)
- / BS in Mining Engineering, Pennsylvania State University, Philadelphia, PA (1985)

REGISTRATIONS & LICENSES

- / Professional Engineer in Maryland (No. 22327), North Carolina (No. 021957), Ohio (No. 62006), Pennsylvania (No. E044833E), Tennessee (No. 00102767), and Virginia (No. 0402030378)

CERTIFICATIONS & TRAINING

- / Mine Safety and Health Administration (MSHA) Title 30 CFR Part 48, No. 0158
- / MSHA Title 30 CFR Part 48, Annual Refresher, February 2025

WORK HISTORY

- / RESPEC (2024–Present)
- / EARTHRES (2015–2024)*
- / Skelly and Loy (1989–2015)

*RESPEC acquired EARTHRES in 2024.

OVERVIEW

Terry Schmidt has more than 36 years of experience in engineering and environmental compliance on a variety of projects related to industrial, commercial, and mining facilities. Terry oversees all engineering work at EARTHRES, a Division of RESPEC, and specializes in coal and aggregate mining and reclamation, refuse reprocessing, refuse disposal, and permitting. Terry currently serves on the Board of Directors for the Pennsylvania Coal Alliance and recently completed a term with the Pennsylvania Aggregates and Concrete Association Board, both statewide organizations composed of scientific professionals working in the mining industries. Terry's specialties include investigating construction impacts associated with abandoned surface and underground mine workings.

PROJECT EXPERIENCE

Lead Consulting Mining Engineer, Rausch Creek Land, LP, Valley View, Pennsylvania. Terry has served as the Lead Consulting Engineer and Environmental Compliance Manager for Pennsylvania Department of Environmental Protection permits since 2003. Terry designed the Porter Tunnel treatment system, which handles flow rates of 700 to 5,000+ gallons per minute, and retrofitted a chemical feed system, followed by enhanced aeration and settling. He supervised the construction of this treatment system, which has met National Pollutant Discharge Elimination System permit limits for over 25 years and continues to assist with its maintenance and upgrades. Terry has also been involved in land development planning, and the transformation of 10,000 acres of mining-impacted land to higher and better uses. He has developed active mining and reclamation plans for numerous permits and performed coal characterization for more than 100 million tons of coal. Terry managed mining engineering and related environmental compliance activities for permits involving aggregate mining, anthracite coal mining, coal refuse mining, coal reserve studies and exploration, beneficial use of ash for reclamation, water withdrawals, biosolids application, and associated environmental compliance activities.

Primary Engineer, Navajo Transitional Energy Company, Dunlap, Tennessee. Terry served as the primary engineer for surface mine reclamation planning and acid mine drainage assessments for Sequatchie Valley Coal Corporation in Tennessee over a 30+-year period. Terry conducted laboratory and on-site treatability studies to define effective chemical treatment approaches and designed numerous passive treatment systems, with the initial system celebrating 30 years of compliance since construction. Terry presented papers at multiple national mine reclamation conferences, including a 30-year overview presentation in 2025 at the West Virginia Mine Drainage Task Force Symposium. He defined and mapped groundwater flow boundaries, evaluated the impacts of pumping activities on regional groundwater flow, and developed a comprehensive water balance. Terry also developed interim and long-term reclamation plans for more than 1,000 acres of surface-mined area and conducted annual basin inspections for more than 30 years to meet federal requirements.

Engineer in Charge for Quarry Development Projects, Multiple Clients, Multiple Locations. Terry oversaw the completion of local and state permit applications. Responsibilities included creating comprehensive site layouts, designing erosion and sediment control plans, and developing drainage systems.

Principal Investigator, Tennessee Valley Authority, Chattanooga, Tennessee. Terry served as Principal Investigator in an evaluation of chemical and passive treatment systems for mine drainage in Alabama. Terry evaluated current treatment systems and suggested potential cost-effective improvements to existing and planned treatment systems. Terry conducted treatment studies for fluoride reduction in mine reclamation area runoff water, studying two methods in the laboratory: ion exchange and uptake by

soil materials. He also assisted in the design of the full-scale treatment system using uptake by soil materials.

Cogeneration Projects, Multiple Clients, Multiple Locations. Terry completed several bituminous and anthracite coal refuse cogeneration projects in West Virginia and Pennsylvania. He developed and carried out drilling programs for available coal refuse piles, determining the quantity and quality of fuel at each site. Terry assisted with an anthracite silt pelletizing project, analyzed material handling systems, and developed a listing of limestone producers capable of supplying high calcium carbonate limestone for use in fluidized beds.

Surface Coal Mine Operator, W. Schmidt Coal Company, Champion, Pennsylvania. Terry operated surface coal mines for approximately 4 years, managing all aspects of the mining operation from property evaluation through job completion. He implemented drilling programs, permitting, erosion and sedimentation design, bookkeeping, environmental compliance, and mine planning.

PUBLICATIONS & PRESENTATIONS

Terry W. Schmidt, 2024. "Upper He Creek Hydraulic and Hydrogeologic Solutions in East Central Tennessee," presented at WV Task Force and International Mine Water Association (April 2024), Morgantown, West Virginia,

Terry W. Schmidt, 2022. "Manganese Regulation and Treatment in Pennsylvania," Presented at Pennsylvania Aggregates and Concrete Association Environmental Community Meeting (May 2022), Harrisburg, Pennsylvania.

Terry W. Schmidt, 2016. "Performance of a Passive Treatment System in Tennessee," Presented at West Virginia Task Force Symposium (March 2016), Morgantown, West Virginia.

Terry W. Schmidt, 2014. "National Pollutant Discharge Elimination System Permitting in Pennsylvania," Presented at Pennsylvania Association of Environmental Professionals Annual Meeting (May 2014), Seven Springs, Pennsylvania.

Terry W. Schmidt, 2014. "Upper He Creek Water Balance," Presented at American Society of Mining and Reclamation (June 2014), Laramie, Wyoming.

Terry W. Schmidt, 2013. "Stone, Sand, and Gravel NPDES System Permitting", Presented at the 2013 National Stone, Sand, and Gravel Association Annual Convention AGG1 Academy, San Antonio, Texas.

Terry W. Schmidt, 2012. , "Permit Fees, Triennial Review, and NPDES Update," Presented at Pennsylvania Aggregate and Concrete Association Summer Meeting (June 2012), Harrisburg, Pennsylvania.

Terry W. Schmidt, 2012. "Broad Top Township Versus AMD: A Success Story in Bedford County, Pennsylvania," Presented at Pennsylvania Abandoned Mine Reclamation Conference (August 2012), State College, Pennsylvania.

Terry W. Schmidt, 2008. "Acid Rock Drainage Prevention Aided by LKD," Industrial Water World Magazine, 2008.

Terry W. Schmidt, 2007. "Assessment of ECOTITE for Use in Acid Rock Drainage Treatment," Presented at 2007 National Meeting of the American Society for Surface Mining and Reclamation, Gillette, Wyoming.

Terry W. Schmidt, 2004. "Evaluation of Aeration Techniques for Mine Water Treatment in Passive Systems", Presented at the 2004 National Meeting of the American Society for Surface Mining and Reclamation and the 25th West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, West Virginia.

Terry W. Schmidt, 2003. "Dry Creek Abandoned Mine Restoration Demonstration Project: A Cooperative Effort," Presented at 2003 National Meeting of the American Society for Surface Mining and Reclamation and The 9th Billings Land Reclamation Symposium, Billings, Montana.

Terry W. Schmidt, 2001. "Passive, Periodic Flushing Technology for Mine Drainage Treatment Systems," Presented at the 2001 National Meeting of the American Society for Surface Mining and Reclamation, Albuquerque, New Mexico.

Terry W. Schmidt, 2001. "Prediction of Water Quality at Surface Coal Mines," 2001.

Terry W. Schmidt, 2001. "Evaluating Successes in Passive Treatment at Sequatchie Valley Coal Corporation in East Central Tennessee", Presented at the 2001 National Meeting of the American Society for Surface Mining and Reclamation, Albuquerque, New Mexico.

Terry W. Schmidt, 1996. "Assessment of the Applicability of an Anoxic Limestone Drain for a Surface Mine in East Central Tennessee", Presented at the 1996 National Meeting of the American Society for Surface Mining and Reclamation, Knoxville, Tennessee.

Terry W. Schmidt, 1994. "Coal Remining Analysis for Maximum Resource Recovery and Environmental Improvement," Master of Science Thesis, The Pennsylvania State University.

Terry W. Schmidt, 1988. "Remine: A Computer Program for the Analysis of Abandoned Mine Lands Projects in the United States", Presented at Surface Coal Mining and Reclamation Symposium, Alberta, Canada.



Musser Engineering
a Division of **RESPEC**



GARRY M. BUNK, PLS

CHIEF OF SURVEYS

TECHNICAL EXPERTISE

- / Project Management
- / Data Analysis
- / Regulatory Compliance
- / Boundary Resolution
- / Surveying Techniques
- / Survey Data Processing
- / Drafting and Design
- / Geospatial Software
- / GPS and Surveying Instruments
- / Volume Calculations
- / Construction Stakeout
- / Calculation of Grades

EDUCATION

- / BS in Broadcasting, Toccoa Falls College, Toccoa Falls, GA (2000)

REGISTRATIONS & LICENSES

- / Professional Land Surveyor in Pennsylvania (No. SU075464)

PROFESSIONAL MEMBERSHIPS

- / Pennsylvania Society of Land Surveyors (PSLS)

WORK HISTORY

- / RESPEC (2024–Present)
- / Musser Engineering (2020–2024)*
- / Sheesley & Associates, LLC (2019–2020)
- / Earthtech, Inc. (2004–2018)
- / Lake Roeder Hillard & Associates (2001–2004)
- / Nassaux-Hemsley, Inc., (1999–2001)
- / O'Connell & Lawrence Inc. (1997–1999)

*RESPEC acquired Musser Engineering in 2024.

OVERVIEW

Garry Bunk is a Pennsylvania-licensed Professional Land Surveyor with more than 27 years of experience in boundary resolution, topographic mapping, construction stakeout, and geodetic control establishment. As Chief of Surveys for Musser Engineering, a Division of RESPEC, Garry leads field survey operations across a wide range of projects, including mining, infrastructure, and development sites with great attention to detail. His career includes thousands of field hours across Pennsylvania and the surrounding region, including Maryland, Washington D.C., West Virginia, and Ohio, giving him a practical understanding of subsurface conditions, historic property lines, and the documentation challenges common to legacy infrastructure.

Garry's technical strengths include establishing permanent control networks, producing high-accuracy as-built drawings, and supporting volumetric and grade calculations through RTK GPS and CAD-based tools. He is experienced with integrating field survey results into digital platforms and drafting geospatial data to support engineering design and permitting. His familiarity with construction environments and regulatory documentation ensures that survey data meet both design and compliance requirements. Garry is also well-versed in supporting complex sites with irregular or undocumented conditions.

Garry's attention to detail and proficiency with various surveying instruments and software, including RTK GPS units, Carlson software, AutoCAD, and IntelliCAD, allow him to deliver accurate and efficient surveying solutions that meet project requirements and regulatory standards.

PROJECT EXPERIENCE

Bison Mine Surveying for Mine Permitting/Design, Allegheny Mineral Corporation, Worthington, Pennsylvania. Garry surveyed a 2-mile traverse loop through an old, inactive (but maintained) underground mine to locate mine workings and the mine pool in relation to proposed surface facilities. He staked the location of injection wells in areas with identified mine voids. Garry also established permanent control monuments and produced a survey control report. He also performed an as-built survey of the surface processing facilities.

Colver Waste Coal Power Plant Surveying for Mining Operations, Interpower/Alcon Partners, Colver, Pennsylvania. Garry drafted design revisions for ash disposal piles to increase the ash placement area, complete with volume calculations. He performed construction stakeouts of pile slopes, benches, ditches, and other features to support ongoing ash placement. Garry also conducted drafting related to mine permit mapping revisions and annual bond reviews.

Mine Site Control and Surface Feature Mapping, Multiple Clients in Pennsylvania. Across various mining and industrial projects, Garry has led the development of permanent survey control networks, as-built condition plans, and 3D grading models. He regularly produces CAD-based deliverables for cut/fill assessments, roadway alignment, and erosion control documentation. His fieldwork often resolves conflicts between historic records and current site conditions, allowing for improved design accuracy and permitting clarity.

Foster Dining Hall, Indiana University of Pennsylvania. Garry performed surveying and drafting services to support an Existing Conditions Plan for the college's demolition of the building and redevelopment of the site. Garry had to coordinate with facility managers and use archived drawings to map utility locations. Underground steam pipe locations and elevations specifically had to be accurately measured. At the conclusion of the project, an Existing Conditions Plan and a 3D terrain model of the site were

delivered to the college's design firm.

Tractor Supply, Ebensburg, Pennsylvania. Garry performed surveying and drafting services in support of a new Tractor Supply building. The project included subdividing a new lot and gaining approval from municipal agencies, developing an Existing Conditions plan as the basis for land development design, construction stakeout, and a post-construction as-built plan.

Topgolf, Bridgeville (Pittsburgh), Pennsylvania. Garry managed and provided construction stakeout services for the construction of a new Topgolf facility. Work included submitting Requests for Information to clarify discrepancies between hard copy plans and digital CAD files. Work was regularly coordinated with the site foreman. This project included a survey control discrepancy between two other firms, which Garry investigated and provided a conclusion on the findings.

Pittsburgh International Airport, New Terminal Building. Garry was tasked with providing QA/QC review of existing conditions mapping and survey control for this project, as well as planning survey checks to verify them. Garry also performed a field survey around the perimeter of the existing airside terminal building, locating features necessary for facility planning. This survey was performed amidst active airliner traffic to and from the terminal building.

Urban Outfitters Fulfillment Center, Indiana, Pennsylvania. Garry managed and provided construction stakeout services for the construction of a new 958,000 square foot customer fulfillment center building. This project was on a very aggressive construction schedule and required constant evaluation of project needs to stay ahead of other contractors. Numerous steel columns were laid out striving for a 0.25-inch overall tolerance.

Flight 93 National Memorial Visitors Center, Stoystown, Pennsylvania. Garry managed and provided construction stakeout services for the construction of a new visitor center building at the Flight 93 National Memorial. This project involved making extremely accurate measurements, extensive documentation of all stakeout work, and regular coordination with the contractor's Project Engineer. Garry also took charge of a post-construction as-built survey and map drafting, as well as performed a geodetic control survey, setting control monuments and providing final processed data.

Redskins Stadium (formerly Jack Kent Cooke Stadium), Washington D.C. As part of a survey crew, Garry performed construction stakeout services on a daily basis for utilities and grading. Garry was also tasked with analyzing and verifying calculations of grades. Being a large and active construction site, maintaining accurate survey control was crucial to the success of the project.

Surveying for Numerous Major Residential Subdivisions in Southeastern Pennsylvania (including Lancaster, Chester, and York Counties). As part of a survey crew, Garry performed topographic and planimetric surveys in support of the development of many large residential subdivisions. Garry also performed construction stakeouts and as-built surveys on these developments. Maintaining and preserving accurate survey control and files was critical for the long-term success of these projects.

VALUE

Garry brings deep regional expertise, licensed authority, and decades of practical survey experience to each project. His ability to translate field observations into precise mapped locations ensures that a project is anchored in accuracy and ready to support long-term operations.



KAREN A. BRADY, PE

PRINCIPAL ENGINEER

TECHNICAL EXPERTISE

- / Project Management for Multidisciplinary Projects
- / Hydraulic Modeling
- / Thermal Analysis for Heat Loss in Water and Wastewater Piping
- / Water and Wastewater System Condition Assessment
- / Civil Site Design
- / Utilidor Systems

EDUCATION

- / BS in Civil Engineering, South Dakota School of Mines & Technology, Rapid City, SD (2001)

REGISTRATIONS & LICENSES

- / Professional Civil Engineer in Alaska, Montana, South Dakota and Wyoming
- / Professional Environmental Engineer in Alaska

PROFESSIONAL MEMBERSHIPS

- / American Society of Civil Engineers (ASCE)
- / American Water Works Association (AWWA)

CERTIFICATIONS & TRAINING

- / Alaska Certified Erosion and Sediment Control Lead (AK-CESCL)

HONORS & AWARDS

- / Engineer of the Year, Fairbanks Chapter, ASPE (2019)

WORK HISTORY

- / RESPEC (2020–Present)
- / PDC Engineers (2001–2020)*

*RESPEC acquired PDC Engineers in 2020.

OVERVIEW

Karen Brady manages the utility group at RESPEC and remains involved in planning, design, and construction administration. Over the years, she has added site design work and expanded her capabilities as a well-rounded civil/environmental engineer. She has a solid, practical understanding of how technical drawings and specifications relate to the construction process in the field. Karen's utility experience includes hydraulic modeling, fire flow capacity analysis, thermal modeling, alignment and profile development, and storm drains. Her site design experience includes parking lots, access, grading, and drainage. Karen enjoys working with a multidiscipline team, collaborating to resolve potential issues. She finds it especially rewarding to be involved from the planning stage, through the design and then construction.

PROJECT EXPERIENCE

Manh Choh Mine, Tok, Alaska. Karen led the civil design for water management as well as well and septic design for the Personnel Camp. The Manh Choh mine near Tok, Alaska is a new gold mine. RESPEC has been working with Peak Gold, LLC over the past year to provide scoping studies for the mine access road, mine facilities, water management, and Personnel Camp. In the first phase of the project the team designed a water management system to capture, convey and treat stormwater run-off from the mine site as well as a new mine access road and upgrade of the Tetlin Village Road for the Manh Choh project. The road is designed for a combination of mine vehicles and the highway ore trucks that will haul the ore to Fairbanks. The intersection of the mine access road and the Tetlin Village Road, along with the intersection to the Alaska Highway, are being designed to maximize the truck driver's sight distance and accommodate the fully loaded B-train-sized highway ore trucks. Minimizing the potential for accidents with the village or public traffic is the top priority for highway haul operation safety. The water management system consists of approximately 4.5 miles of ditch around the perimeter of the site with two retention basins and about 2.3 miles of piping to a treatment plant that will use reverse osmosis.

Moose Creek Water Expansion, City of North Pole, North Pole, Alaska. Karen was part of a team that worked quickly to design an expansion of the City of North Pole water system after wells in the nearby community of Moose Creek became contaminated with polyfluoroalkyl substances (PFAS), which threatened the safety of its residents. The team completed the design in just 11 months and the permitting in 15 months. The team created a design plan to increase the capacity of the city wells and water treatment system, construct a new pumphouse and storage tank, lay approximately 18 miles of transmission and distribution mains, and provide approximately 200 water services. The design needed approval from eight government agencies to move forward, including the Alaska Department of Natural Resources and the U.S. Environmental Protection Agency. Karen managed the project from conceptual design through construction. She led a team of multidisciplinary engineers and coordinated with permitting agencies, the City of North Pole, the U.S. Air Force, and the U.S. Army Corps of Engineers. The water mains, pumphouse, and storage were constructed in 2020. The well upgrades and services were installed in 2021.

Long Range Discrimination Radar (LRDR) Design, U.S. Missile Defense Agency, Clear Space Force Station (SFS), Alaska. Karen was part of a team that facilitated the implementation of a new site for an LRDR. The LRDR needed persistent midcourse Ballistic Missile Defense System discrimination capability, and the chosen site had to provide assessments of potential threat trajectories in the Pacific to improve homeland defense capabilities. The team provided the site planning, programming, and conceptual design development for the project. The team also gave input to the Facilities Requirements Document (FRD), developed planning level cost estimates, and supported input to the DD Form 1391. Karen worked closely with a large, multidisciplinary design team to design the campus wide water, wastewater, and storm drain



systems; a several-thousand-foot fire hydrant loop; district heating; electrical, communication, and fuel distribution lines; and a 30-inch cooling water discharge pipeline. The 80-acre campus will have self-sufficient utilities requiring domestic and cooling water wells, a single septic system serving the entire campus, maintenance and security facilities, and a 25-megawatt (MW) backup power plant to support the radar. Throughout construction, Karen has been responsive to Requests for Information and submittal reviews.

Campus Improvements, Holland America Princess, Denali, Alaska. Karen was on a team contracted to review the existing water and sewer infrastructure to add 120 rooms to the Holland America Princess resort. This project encompassed evaluating water supply, storage, distribution, and the wastewater collection system. Karen compared existing water use against anticipated water use based on adding rooms. She coordinated with the system's operator to obtain details about operation and maintenance concerns and summarized them alongside alternatives in a concept memorandum. Then, she met with stakeholders to determine the best path forward for the water and sewer systems. Finally, she managed a multidisciplinary team to design the proposed improvements, obtained Alaska Department of Environmental Conservation (ADEC) approval to operate, and coordinated with the construction contractor throughout construction to clarify design intent and make modifications when necessary. On project completion, the team provided record drawings and coordinated with ADEC for Approval to Operate.

Utility System Characterization Studies, Doyon Utilities, Fort Greely Military Base, Alaska. Karen was on a team that provided an inventory and evaluation of the water and sewer system components, condition, and deficiencies as well as the strategic planning to identify the best direction to take the utilities for the next 50 years, given the existing infrastructure and its condition. At Fort Greely, work involved evaluating the water supply, storage, and treatment facilities; 3.8 miles of water distribution lines and 3.5 miles of sewer collection piping; two lift stations; and a wastewater treatment plant. For supply and treatment facilities, Karen coordinated the evaluation by a subconsultant. In addition, she led the creation of a new model for both the water and sewer from geographic information system (GIS) information, which was spot-checked for accuracy in the field and updated to reflect recent construction. At Fort Wainwright, she led the inventory and evaluation of the sewer system's components, condition, and deficiencies and provided strategic planning. This work involved inspecting, modeling, and evaluating 22 miles of sewer collection piping and 19 lift stations.

Galena Water and Sewer Improvements – Environmental Assessment, Galena, Alaska. As part of a project team, Karen was involved in developing the Environmental Assessment for Phases II to IV of the improvements recommended in the Galena Water and Sewer Master Plan to secure funding from the U.S. Department of Agriculture (USDA) for the water expansion and additional sewer improvements. The team researched hazmat spills, historical and cultural sites, and wetlands and prepared a wetlands permit. The team kept the public informed and involved through newsletters, a questionnaire, and public meetings. Once funding was secured, the team completed the design for the water and sewer improvements. The water system expansion provided piped water service to 70 homes and stubs to 40 vacant lots. Approximately 2.4 miles of new arctic water main were installed along with 1.5 miles of road grade raise and upgrades to the water treatment plant. Individual sewerage systems were provided for these homes. Depending on the size of the lot and soil conditions, the home received a septic and leach field, an individual sewerage treatment plant (XSTP), or a holding tank. This project was constructed with Force Account (local) labor. Karen provided construction documents and ADEC permitting. During construction, she provided submittal reviews, DCVR responses, and periodic site inspections.

Stillmeyer Water and Street Improvements and City Sewer Upgrades, North Pole, Alaska. Karen was on a team that provided the design for upgrades to the water system in Stillmeyer Subdivision in North Pole. Initial steps required a Preliminary Engineering Report that described and evaluated design alternatives to support the environmental document prepared for the U.S. Environmental Protection Agency (EPA). Next, the team developed the design for the water main to replace existing piping and multiple pump stations that had been costly to maintain. Karen provided hydraulic modeling; identified the existing and abandoned utilities throughout the subdivision; performed route planning; gave presentations to the public; provided cost estimates; and oversaw multidisciplinary coordination. She also prepared ADEC applications for construction; developed plans and specifications; provided construction administration, including the role of the resident project representative; and coordinated record drawings.

The background of the page features several thin, light gray lines that intersect to form a series of overlapping, irregular polygons. These lines are primarily located on the left and bottom edges, creating a modern, architectural feel.

APPENDIX C.

LICENSES, CERTIFICATIONS AND DEGREES

JACKSONVILLE • STATE • UNIVERSITY

JACKSONVILLE



ALABAMA

KNOW ALL MEN BY THESE PRESENTS
THAT UPON THE RECOMMENDATION OF THE FACULTY
AND BY CONFIRMATION OF THE BOARD OF TRUSTEES
JACKSONVILLE STATE UNIVERSITY HEREBY CONFERS ON

DUSTIN WADE MORIN

THE DEGREE OF

MASTER OF SCIENCE

WITH ALL THE RIGHTS PRIVILEGES THEREUNTO APPERTAINING
IN WITNESS WHEREOF THE SEAL OF THE UNIVERSITY AND THE SIGNATURES
OF THE GOVERNOR OF THE STATE AND OF THE PRESIDENT OF THE UNIVERSITY
ARE HEREUNTO ATTACHED

GIVEN AT JACKSONVILLE IN THE STATE OF ALABAMA

THIS TWENTY-NINTH DAY OF APRIL 2005



GOVERNOR AND PRESIDENT OF THE BOARD

PRESIDENT OF THE UNIVERSITY

JACKSONVILLE • STATE • UNIVERSITY

JACKSONVILLE



ALABAMA

KNOW ALL MEN BY THESE PRESENTS
THAT UPON THE RECOMMENDATION OF THE FACULTY
AND BY CONFIRMATION OF THE BOARD OF TRUSTEES
JACKSONVILLE STATE UNIVERSITY HEREBY CONFERS ON

DUSTIN WADE MORIN

THE DEGREE OF

BACHELOR OF SCIENCE

WITH ALL THE RIGHTS PRIVILEGES THEREUNTO APPERTAINING
IN WITNESS WHEREOF THE SEAL OF THE UNIVERSITY AND THE SIGNATURES
OF THE GOVERNOR OF THE STATE AND OF THE PRESIDENT OF THE UNIVERSITY
ARE HEREUNTO ATTACHED

GIVEN AT JACKSONVILLE IN THE STATE OF ALABAMA
THIS FIRST DAY OF AUGUST 2003



GOVERNOR AND PRESIDENT OF THE BOARD

PRESIDENT OF THE UNIVERSITY



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting
"Know Ye" That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

Jesse C. Hatter

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT
by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number 22782

To Hold and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 23rd day of January
in the year of our Lord 2018
and of the State
the One Hundred Fifty-Fourth

Members of the Board

Blair S. Selig

Earl E. Thompson

L. C. Nott

Search: Details

Name:	JESSE CURTIS HATTER
WV Professional Engineer:	PE License Number: 022782
	PE License Status: Active
	PE Issue Date: 01/23/2018
	PE Expiration Date: 12/31/2026
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 30.00
	Carryover Hours for Next Renewal: 0.00
	Last Renewal or Reinstatement Date*: 12/30/2024
WV Engineer Intern:	EI Certification Number:
	EI Issue Date:
Primary Address of Record:	201 REDWOOD DRIVE STANFORD, KY 40484
Primary Employer of Record:	RESPEC
	<div><div>*</div><div>This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.</div></div>

This data was retrieved on 8/6/2025.

University of Kentucky

Upon recommendation of the University Senate and
approval of the Board of Trustees, the President of the University of Kentucky
confers on

Jesse Curtis Hatter

the degree of

Bachelor of Science in Mining Engineering

Mining Engineering

this fifth day of August, 2010

Lee J. Todd, Jr.

President of the University

Billy Joe Mills

Chair Pro Tempore Board of Trustees



Thomas W. Lester

Dean of the College

Donald E. Witt

University Registrar



University of
Kentucky

Kentucky Transportation Center

Jesse Hatter

Has successfully completed a course of study and is qualified as a

**KENTUCKY EROSION PREVENTION &
SEDIMENT CONTROL PROGRAM**

Date: March 18, 2021

No. 210300020

West Virginia State Board of Registration for Professional Engineers

Site Last
Updated
1/2/2025

Search: Details

Name:	WHITNEY ELAINE FAULKNER
WV Professional Engineer:	PE License Number: 023735
	PE License Status: Active
	PE Issue Date: 08/20/2019
	PE Expiration Date: 12/31/2026
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 46.00
	Carryover Hours for Next Renewal: 15.00
	Last Renewal or Reinstatement Date*: 12/11/2024
WV Engineer Intern:	EI Certification Number:
	EI Issue Date:
Primary Address of Record:	808 TURKEY FOOT COURT APT 1 LEXINGTON, KY 40502
Primary Employer of Record:	RESPEC
	<div><div>*</div><div>This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.</div></div>

This data was retrieved on 1/3/2025.

University of Kentucky

Upon recommendation of the University Senate and
approval of the Board of Trustees, the President of the University of Kentucky
confers on

Whitney Elaine Faulkner

the degree of

Bachelor of Science in Civil Engineering

Civil Engineering

this fifth day of May, 2002

Lee I. Todd, Jr.

President of the University

Billy Joe Mills

Chairman, Board of Trustees



Thomas W. Lister

Dean of College

Donald E. Witt

University Registrar



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting
"Know Ye" That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

Jacob L. Stephens

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT
by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number 27450

"To Hold" and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 26th day of June
in the year of our Lord 2025
and of the State
the One Hundred Sixty-Second

Members of the Board

Scott E. Thomas Jr. Lyle R. Rott

Rodney D. Holbert Carroll A. Stevens

University of Kentucky

Upon recommendation of the University Senate and
approval of the Board of Trustees, the President of the University of Kentucky
confers on

Jacob Leonard Stephens

the degree of

Bachelor of Science in Mining Engineering

Mining Engineering

this seventeenth day of December, 2010

Lee I. Todd, Jr.
President of the University

Robert G. Hoffman
Chairman, Board of Trustees



Thomas W. Lister
Dean of College

Donald E. Witt
University Registrar



Occupational Safety
and Health Administration

30-602022145

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:

Jake L Stephens

Jonathan Jacobi

Trainer Name

12/31/2020

Date of Issue



STATE OF WEST VIRGINIA
OFFICE OF MINERS' HEALTH, SAFETY & TRAINING

CLASS 07 SURFACE COAL MINER

NAME JACOB L. STEPHENS

DATE OF ISSUE

08/19/2009

DATE OF EXPIRATION

N/A

3-13529

CERTIFICATE NUMBER

XXX-XX-1160

SOCIAL SECURITY NUMBER

2383004428


CERTIFYING OFFICIAL

REC


VERIFYING OFFICIAL

PRESORTED
FIRST-CLASS MAIL



COMMONWEALTH OF KENTUCKY

Be it known that

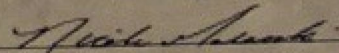
Ryan Lee Hall

*having qualified, as authorized by act of the General Assembly, is duly licensed
and is hereby authorized to practice in the Commonwealth of Kentucky as a*

PROFESSIONAL ENGINEER

*In Testimony Whereof we have affixed our hand
and seal this 10th day of January, 2024*

 Chair

 Secretary

License No. **39484**

Issued by the

Kentucky State Board of Licensure for Professional Engineers and Land Surveyors



Search for Kentucky Licensees

Name: Ryan Hall

Professional Engineer: Number: 39484

Status: Current

Issue Date: 01/10/2024

Expiration Date: 06/30/2027

Professional Land Surveyor:

Address of Record: 46 Hiawatha trail

Winchester, KY 40391

Responsible Charge For:

Disciplinary Action?:



Education Information

Dashboard

Exams

Exam Prep

PE/PS Exam Docs

Multi-State Licensure

CPC Tracking

Education Information Add education Done adding education

[Transcript verification time frame](#)

University of Kentucky, Lexington Verified

Degree: Bachelors in Biosystems Engineering (Formerly known as Agricultural)
Graduation: May 2019
Attended: August 2014—May 2019

High School Edit

Graduation: May 2014

[Privacy Statement](#) • [Terms of Use](#)

Help ×

Entering your education information

It is important to enter accurate information about your education. Some state licensing boards have expedited approval processes for candidates with certain accredited degrees.

After entering your high school graduation date, add education information for each college, university, and technical school attended. Include graduate work, evening school, and other education for which academic credit was given.

Exam Registrants

Some states require verification of your education prior to authorizing you to take an exam. Check the requirements of your **state licensing board**. If you do not need to have your education verified, select "Done adding education" to continue.

Records Program Applicants

All education information must be verified with official transcripts. Select **verify** to learn how to have your official transcripts submitted as part of the Records application process.

Credentials Evaluation Service Applicants

Candidates for licensure who do not have an EAC/ABET-accredited degree may be required by a state licensing board to have their educational background evaluated by the NCEES Credentials Evaluation service.

If you are applying to the Credentials Evaluation service, you must select verify to have your education information verified with official transcripts. Official documents received by NCEES as a part of this process become the property of NCEES and will not be returned to the candidate. During the verification process, documents are stamped and scanned into the NCEES system and then shared for security purposes. Only state licensing boards have viewing access to these documents.

The State Board of Registration
For
Professional Engineers of West Virginia



Herewith Certifies That

David M. Purkey

having completed the educational requirements satisfactory to the Board and passed the Fundamentals of Engineering Examination consisting of mathematics, the physical sciences and the principles of engineering, is hereby enrolled as an

Engineer Intern

Certificate Number - 9271

After completing a sufficient period of engineering experience of a character satisfactory to the Board, one may take the final examinations to complete the requirements of the Law for registration as a Professional Engineer in the State of West Virginia.

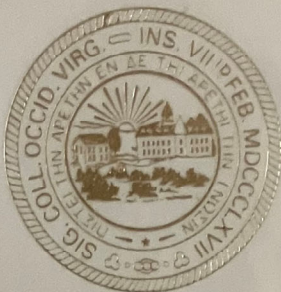
Issued in Charleston, WV on December 23, 2010

2012/10/31

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* Red n

WEST VIRGINIA UNIVERSITY



COLLEGE OF ENGINEERING AND MINERAL RESOURCES

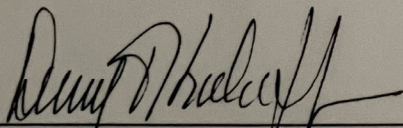
*Know all persons by these presents
that the West Virginia University Board of Governors
upon the recommendation of the faculty
has conferred upon*

DAVID PAUL PURKEY

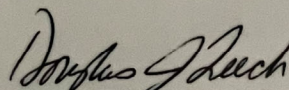
The Degree of

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

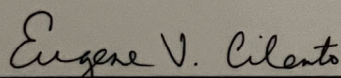
*With all the rights, honors, and privileges thereunto
appertaining. Witness the seal of the university and
the signatures of its duly authorized officers hereunto
affixed this fourteenth day of May,
two thousand six.*



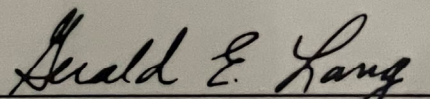
President of the University



Chair, West Virginia University
Board of Governors



Dean of the College



Provost and Vice President
for Academic Affairs and Research

State of West Virginia



Fairmont State College This Diploma Makes Known

*That the West Virginia Board of Directors upon the recommendation
of the faculty of the College has conferred upon*

David Paul Purkey
the degree of

Bachelor of Science in Engineering Technology

*In Testimony thereof, the signatures of the duly authorized officers of the
West Virginia Board of Directors and of the Faculty of the College have
been affixed.*

Done at Fairmont, West Virginia this 12th day of May, 1990.

WEST VIRGINIA BOARD OF DIRECTORS

William D. Wilmoth

CHAIRMAN OF THE BOARD OF DIRECTORS

M. Douglas Call

INTERIM CHANCELLOR

Robert J. Hallman

PRESIDENT OF COLLEGE

[Signature]

VICE PRESIDENT FOR ACADEMIC AFFAIRS

State of West Virginia



Fairmont State College

This Diploma Makes Known

*That the West Virginia Board of Directors upon the recommendation
of the faculty of the College has conferred upon*

David Paul Purkey
the degree of

Associate of Science

*In Testimony thereof, the signatures of the duly authorized officers of the
West Virginia Board of Directors and of the Faculty of the College have
been affixed.*

Done at Fairmont, West Virginia this 12th day of May, 1990.

WEST VIRGINIA BOARD OF DIRECTORS

William D. Wilmoth

CHAIRMAN OF THE BOARD OF DIRECTORS

M. Douglas Call

INTERIM CHANCELLOR

Robert J. Wilmon

PRESIDENT OF COLLEGE

[Signature]

VICE PRESIDENT FOR ACADEMIC AFFAIRS

University of Kentucky

Upon recommendation of the University Senate and
approval of the Board of Trustees, the President of the University of Kentucky
confers on

Lauren Nicole Pennington

the degree of

Bachelor of Science in Mining Engineering

Mining Engineering
Cum Laude

this sixth day of May, 2022

Eli Zsigmond
President of the University

Robert Vance
Chair, Board of Trustees



Rudolph G. Buller
Dean of College

Kim K. Jaffer
University Registrar

South Dakota School of Mines and Technology

The South Dakota Regents of Education on nomination of
The Faculty of the School of Mines and Technology
have conferred upon

Sharon Elizabeth Arrieta Ruiz

The Degree of

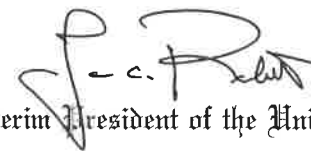
Master of Science in Mining Engineering and Management
Mining Engineering Specialization

With all the Rights, Privileges and Honors as well as the Obligations and
Responsibilities thereto appertaining.

Conferred at Rapid City in the State of South Dakota this
twenty-third day of August, 2024.



President of The Board of Regents



Interim President of the University

Republic of Colombia
Ministry of National Education



Universidad Nacional de Colombia

[National University of Colombia]

Confers the degree of

Bachelor of Mining and Metallurgical Engineering

Upon

Sharon Elizabeth Arrieta Ruiz

Identified with Colombian Citizenship ID No. 1,067,936,222 issued in Monteria

Who has successfully fulfilled all the academic requirements demanded.

In evidence whereof, and under oath, the university awards her this

DIPLOMA

Issued in the city of Medellin, on the 07th day of September, 2018

[Signed]
Dean of Faculty

[Signed]
Chancellor

[Signed]
General Secretary

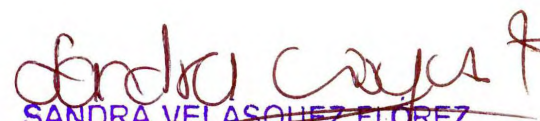
Registry No. 8275, Folio 67, Book of Diplomas No. 6
Medellin Campus, Faculty of Mines

0167738

THOMAS GREG & SONS

The undersigned certified Translator – Sandra Velasquez Florez – attests that the document herewith represents a true translation of its original counterpart.

Issued August 12, 2021


SANDRA VELASQUEZ FLOREZ
TRADUCTORA E INTERPRETE OFICIAL /
CERTIFIED TRANSLATOR AND INTERPRETER
Inglés - Español - Inglés / English - Spanish - English
ACTA N° 185 DEL 17 DE JULIO DE 2018 /
CERTIFICATE N° 185 DATED JULY 17, 2018



UC San Diego | Extension
INTERNATIONAL SAFETY EDUCATION INSTITUTE (ISEI)

ISEI2010-6935424

**American
Safety Council**

This card certifies that:

AARON STRICKLAND

has completed a 10-Hour OSHA Hazard Recognition Training
for General Industry.


Director: **Scott MacKay**


Trainer: **Taylor Sikes**

11/09/2012
Grad. Date:

Commonwealth of Pennsylvania



Department of State Bureau of Professional and Occupational Affairs

TO ALL TO WHOM THESE PRESENTS SHALL COME GREETING,

STATE REGISTRATION BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS AND GEOLOGISTS

TERRY W SCHMIDT

HAVING SUBMITTED SATISFACTORY EVIDENCE OF FITNESS AS TO CHARACTER, ABILITY, TECHNICAL TRAINING AND PRACTICAL EXPERIENCE AND ALL OTHER MATTERS REQUIRED BY LAW AND IN ACCORDANCE WITH THE PROVISIONS OF THE ACT OF THE GENERAL ASSEMBLY APPROVED MAY 23, 1945, IS GRANTED THIS CERTIFICATE OF REGISTRATION AND IS HEREBY AUTHORIZED TO PRACTICE AS A

PROFESSIONAL ENGINEER

IN THE COMMONWEALTH OF PENNSYLVANIA

In Witness Whereof, we have hereunto set our Hand and caused the Seal of the Bureau of Professional and Occupational Affairs to be affixed at Harrisburg.

FEBRUARY 22, 1994

LICENSE NUMBER: PE-044833-E

A handwritten signature in blue ink, appearing to read "D. J. [unclear]".

Chairperson

A handwritten signature in blue ink, appearing to read "J. H. [unclear]".

Acting Commissioner





BUREAU OF PROFESSIONAL AND OCCUPATIONAL AFFAIRS

P. O. Box 2649

Harrisburg, PA 17105-2649

08/12/2025

License Information

TERRY W SCHMIDT

Chalfont, Pennsylvania 18914

Board/Commission: State Registration Board for Professional
Engineers, Land Surveyors and Geologists

Status Effective Date:

LicenseType: Professional Engineer

Issue Date: 02/22/1994

Specialty Type:

Expiration Date: 09/30/2025

License Number: PE044833E

Last Renewal: 09/14/2023

Status: Active

Disciplinary Action Details

No disciplinary actions were found for this license.

This site is considered a primary source for verification of license credentials provided by the
Pennsylvania Department of State.

The Pennsylvania State University



By Authority of the Board of Trustees and
Upon the Recommendation of the Faculty, Hereby Confers Upon

Terry M. Schmidt

the degree of

Master of Science
University Park Campus

In recognition of the completion of advanced study in

Mining Engineering

In Testimony Whereof the Undersigned Have Subscribed Their Names
and Affixed the Seal of the University this month of December, 1994.

William C. Cline
President of the
Board of Trustees

Joos Thomas
President of the University

J. L. B. Bright
Executive Vice President
and Provost of the University

David A. Shoberg
Senior Vice President for Research
and Dean of the Graduate School

THE · PENNSYLVANIA · STATE · UNIVERSITY

BY · AUTHORITY · OF · THE · BOARD · OF · TRUSTEES · AND · UPON
THE · RECOMMENDATION · OF · THE · FACULTY · AND · OF · THE · SENATE
HEREBY · CONFERS · UPON

TERRY WILLIAM SCHMIDT

THE · DEGREE · OF

BACHELOR OF SCIENCE

IN · RECOGNITION · OF · THE · COMPLETION · OF · THE · MAJOR · IN
MINING ENGINEERING


IN · TESTIMONY · WHEREOF · THE · UNDERSIGNED · HAVE · SUBSCRIBED
THEIR · NAMES · AND · AFFIXED · THE · SEAL · OF · THE · UNIVERSITY · THIS
MONTH · OF · MAY · A · D · 1985



PRESIDENT · OF · THE · BOARD · OF · TRUSTEES



PRESIDENT · OF · THE · UNIVERSITY



EXECUTIVE · VICE · PRESIDENT
AND · PROVOST · OF · THE · UNIVERSITY



DEAN · COLLEGE · OF · EARTH · AND · MINERAL · SCIENCES

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

23 0132439

License Type
Professional Land Surveyor

GARRY MICHAEL BUNK
337 FINNTOWN ROAD
NANTY GLO, PA 15943



License Status
Active

Initial License Date
12/15/2015

License Number
SU075464

Expiration Date
09/30/2025

Arion R. Claggett

Acting Commissioner Arion R. Claggett

Garry Michael Bunk

Signature

ALTERATION OF THIS DOCUMENT IS A CRIMINAL OFFENSE UNDER 18 PA.C.S. §. 4911

Toccoa Falls College

The Board of Trustees upon the recommendation of the Faculty

Hereby Confers Upon
Garry Michael Bunk

The Degree of
Bachelor of Science

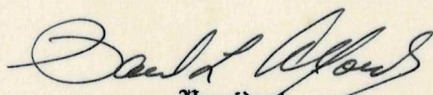
Magna cum laude
Broadcasting

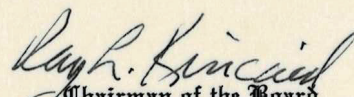
With all the Rights, Privileges and Honors thereto appertaining

In Witness Whereof, the seal of the college and the
signatures of its officers are hereunto affixed

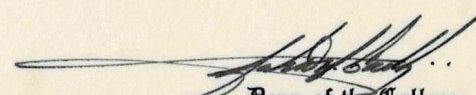
Given at Toccoa Falls, Georgia, this eighth day of December

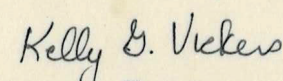
In the year of Our Lord, Two Thousand.


President


Chairman of the Board




Dean of the College


Registrar



Department of Commerce, Community, and Economic Development
CORPORATIONS, BUSINESS & PROFESSIONAL LICENSING

[State of Alaska](#) / [Commerce](#) / [Corporations, Business, and Professional Licensing](#) / [Search & Database Download](#) / [Professional Licenses](#) / License Details

LICENSE DETAILS

This serves as primary source verification* of the license.

License #: AELC11523

Program: Architects, Engineers and Land Surveyors

Type: Registered Professional Civil Engineer

Status: Active

Issue Date: 06/16/2006

Effective Date: 12/12/2023

Expiration Date: 12/31/2025

Mailing Address: FAIRBANKS, AK, UNITED STATES

Licensure Basis Type: Examination

*Primary Source verification: License information provided by the Alaska Division of Corporations, Business and Professional Licensing, per AS 08 and 12 AAC.

Owners

Owner Name	Entity Number
Karen Ann Brady	

Relationships

License/Entity		Name	License Status	Expiration Date
Title	#			
Firm	163270	PDC,A DIVISION OF RESPEC COMPANY LLC & PDC ENGINEERS	Active	12/31/2025

Designations

No Designations Found

Agreements & Actions

No Agreements Or Actions

8/12/2025 2:37:01 PM (Alaskan Daylight Time)



Department of Commerce, Community, and Economic Development

CORPORATIONS, BUSINESS & PROFESSIONAL LICENSING

State of Alaska / Commerce / Corporations, Business, and Professional Licensing / Search & Database Download / Professional Licenses / License Details

LICENSE DETAILS

This serves as primary source verification* of the license.

License #: AELV13911

Program: Architects, Engineers and Land Surveyors

Type: Registered Professional Environmental Engineer

Status: Active

Issue Date: 08/16/2013

Effective Date: 12/12/2023

Expiration Date: 12/31/2025

Mailing Address: FAIRBANKS, AK, UNITED STATES

Licensure Basis Type: Credentials

*Primary Source verification: License information provided by the Alaska Division of Corporations, Business and Professional Licensing, per AS 08 and 12 AAC.

Owners

Owner Name	Entity Number
Karen Ann Brady	

Relationships

License/Entity		Name	License Status	Expiration Date
Title	#			
Firm	163270	PDC,A DIVISION OF RESPEC COMPANY LLC & PDC ENGINEERS	Active	12/31/2025

Designations

No Designations Found

Agreements & Actions

No Agreements Or Actions

8/12/2025 2:34:39 PM (Alaskan Daylight Time)

South Dakota School of Mines and Technology

The South Dakota Regents of Education on nomination of
the Faculty of the School of Mines and Technology
have conferred upon

Karen Ann Balo

the Degree of

Bachelor of Science in Civil Engineering

With all the Rights, Privileges and Honors as well as the Obligations and
Responsibilities thereto appertaining.



Conferred at Rapid City in the State of South Dakota this
fifteenth day of December, 2001.

Harvey C. Jewett
President of the Regents of Education

Rudolf J. Loren
President of the School
of Mines and Technology

The background of the page features several thin, light gray lines that intersect to form a series of overlapping, irregular polygons. These lines create a modern, architectural feel, with some lines extending from the top and bottom edges towards the center.

APPENDIX D. SIGNED EXPRESSION OF INTEREST FORM



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

State of West Virginia
Centralized Expression of Interest

Proc Folder: 1717189			Reason for Modification:
Doc Description: AML - EOI Pre-Qualification for Consultants			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2025-08-01	2025-08-20 13:30	CEOI 0313 DEP2600000001	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: 0000099853
Vendor Name : RESPEC Company, LLC
Address : 146
Street : East Third Street
City : Lexington
State : Kentucky
Country : USA
Zip : 40508
Principal Contact : Dustin Morin
Vendor Contact Phone: 256.452.1054
Extension:

FOR INFORMATION CONTACT THE BUYER

Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X

FEIN# 83-2898293

DATE August 20, 2025

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

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Division is soliciting vendors to prequalify to provide proposals on Expression(s) of Interest(s) ("EOI") for the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) from qualified firms to provide architectural/engineering services pursuant to HB 3429.

The purpose of the project is to solicit pre-qualifications for the purpose of making available a list of pre-qualified Consultants.

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

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

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
EOI Engineering Design Services

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
-------------	--------------	-------------------



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

State of West Virginia
Centralized Expression of Interest

Proc Folder: 1717189			Reason for Modification: Addendum #1 issued to publish agency responses to vendor submitted questions.
Doc Description: AML - EOI Pre-Qualification for Consultants			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2025-08-13	2025-08-20 13:30	CEOI 0313 DEP2600000001	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: 0000099853
Vendor Name : RESPEC Company, LLC
Address : 146
Street : East Third Street
City : Lexington
State : Kentucky
Country : USA
Zip : 40508
Principal Contact : Dustin Morin
Vendor Contact Phone: 256.452.1054
Extension:

FOR INFORMATION CONTACT THE BUYER

Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X

FEIN# 83-2898293

DATE August 20, 2025

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

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Division is soliciting vendors to prequalify to provide proposals on Expression(s) of Interest(s) ("EOI") for the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) from qualified firms to provide architectural/engineering services pursuant to HB 3429.

The purpose of the project is to solicit pre-qualifications for the purpose of making available a list of pre-qualified Consultants.

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

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

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
EOI Engineering Design Services

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
-------------	--------------	-------------------

The background of the page features several thin, light gray lines that intersect to form a series of overlapping, irregular polygons. These lines are primarily located on the left and bottom edges, creating a modern, architectural feel.

APPENDIX E. DESIGNATED CONTACT FORM

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

(Printed Name and Title) Whitney Faulkner, PE, Project Manager

(Address) 146 East Third Street, Lexington, KY 40508

(Phone Number) / (Fax Number) 773.218.5866 / NA

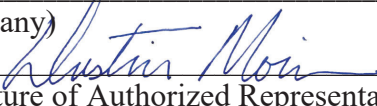
(email address) Whitney.Faulkner@respec.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

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

RESPEC Company, LLC

(Company)


(Signature of Authorized Representative)

Dustin Morin, Project Manager

(Printed Name and Title of Authorized Representative) (Date)

256.452.1054

(Phone Number) (Fax Number)

dustin.morin@respec.com

(Email Address)

The background of the page features several thin, light gray lines that intersect to form a series of overlapping, irregular polygons. These lines are primarily located on the left and bottom edges, creating a modern, architectural feel.

APPENDIX F.

ADDENDUM ACKNOWLEDGMENT FORM

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0313 DEP26*01

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

<input checked="" type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input type="checkbox"/> Addendum No. 3	<input type="checkbox"/> Addendum No. 8
<input type="checkbox"/> Addendum No. 4	<input type="checkbox"/> Addendum No. 9
<input type="checkbox"/> Addendum No. 5	<input type="checkbox"/> Addendum No. 10

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

RESPEC Company, LLC

Company



Authorized Signature

8/20/25

Date

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

Revised 6/8/2012

The background of the page features several thin, light gray lines that intersect to form a series of overlapping, irregular polygons. These lines create a modern, architectural feel, with some lines extending from the top and sides towards the bottom center.

APPENDIX G.

AML CONTRACTOR INFORMATION FORM (AVS)

ABANDONED MINE LANDS (AML) CONTRACTOR INFORMATION FORM

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

Part A: General Information

Business Name: RESPEC Company, LLC

Tax ID #: 83-2898293

Address: 3824 Jet Drive

City, State, & Zip: Rapid City, SD 57703

Phone Number: 605.394.6517

Email Address: robyn.beaird@respec.com

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

If you plan to certify the existing AVS information or submit updates under Part C, you must include an OFT. Instructions for downloading an OFT from the AVS can be found at: <https://www.osmre.gov/sites/default/files/2022-02/OMB%201029-0119%20instructions.pdf>. If you require assistance you may contact the AVS Office by phone at: 800-643-9748, or by email at: avshelp@osmre.gov.

Part C: Certifying and updating information in the AVS

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

I, Robyn Beaird, have express authority to certify that:
(Print Name)

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

08/18/2025

Date

Robyn K Beaird

Digitally signed by Robyn K Beaird
Date: 2025.08.18 12:42:43 -06'00'

Signature

Controller

Title

Part D: OFT InformationContractor's Business Name: RESPEC Company, LLC

If the current Entity OFT information for your business is incomplete in the AVS, or if there is no information in the AVS for your business, you must provide all of the following information as it applies to your business. Please include additional copies of this page if the space below is not sufficient to capture all information.

- Every officer (President, Vice President, Secretary, Treasurer, etc.);
- All Directors, Partners, and Members;
- All persons performing a function similar to a Director;
- Every person or business that owns 10% or more of the voting stock in your business;
- Any other person(s) who has the ability to determine the manner in which the AML reclamation project is being conducted.
- **Please list an end date for any person who is no longer with your business.**

Name: Dustin Morin
 Address: 3824 Jet Drive
 City, State, Zip: Rapid City, SD 57703
 Begin Date: 2/1/2025
 End Date: _____
 % Ownership: 0
 Position/Title: Manager
 Phone Number: 256.452.1054

Name: Jason Love
 Address: 3824 Jet Drive
 City, State, Zip: Rapid City, SD 57703
 Begin Date: 12/31/2023
 End Date: _____
 % Ownership: 0
 Position/Title: CEO/President
 Phone Number: 605.394.6400

Name: Todd Kenner
 Address: 3824 Jet Drive
 City, State, Zip: Rapid City, SD 57703
 Begin Date: 1/11/2011
 End Date: 12/31/2024
 % Ownership: 0
 Position/Title: Director
 Phone Number: 605.394.6400

Name: Todd Kenner
 Address: 3824 Jet Drive
 City, State, Zip: Rapid City, SD 57703
 Begin Date: 1/1/2011
 End Date: 12/31/2023
 % Ownership: 0
 Position/Title: President
 Phone Number: 605.394.6400

PAPERWORK REDUCTION STATEMENT

The Paperwork Reduction Act of 1995 (44 U.S.C 3501) requires us to inform you that: Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number. This information is necessary for all successful bidders prior to the distribution of AML funds, and is required to obtain a benefit.

Public reporting burden for this form is estimated to range from 15 minutes to one hour, with an average of 30 minutes per response, including time for reviewing instructions, gather and maintaining data, and completing and reviewing the form. You may direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Office of Surface Mining Reclamation and Enforcement, 1849 C Street, NW, Room 4559, Washington, DC 20240.

Part D: OFT InformationContractor's Business Name: RESPEC Company, LLC

If the current Entity OFT information for your business is incomplete in the AVS, or if there is no information in the AVS for your business, you must provide all of the following information as it applies to your business. Please include additional copies of this page if the space below is not sufficient to capture all information.

- Every officer (President, Vice President, Secretary, Treasurer, etc.);
- All Directors, Partners, and Members;
- All persons performing a function similar to a Director;
- Every person or business that owns 10% or more of the voting stock in your business;
- Any other person(s) who has the ability to determine the manner in which the AML reclamation project is being conducted.
- **Please list an end date for any person who is no longer with your business.**

Name: Leo Van Sambeek
 Address: 3824 Jet Drive
 City, State, Zip: Rapid City, SD 57703
 Begin Date: 1/1/2011
 End Date: 11/15/2021
 % Ownership: 0
 Position/Title: Vice President
 Phone Number: 605.394.6400

Name: Walter Jones
 Address: 3824 Jet Drive 57703
 City, State, Zip: Rapid City, SD 57703
 Begin Date: 1/1/2011
 End Date: 6/30/2022
 % Ownership: 0
 Position/Title: Director
 Phone Number: 605.394.6400

Name: Rick Moser
 Address: 3824 Jet Drive
 City, State, Zip: Rapid City, SD 57703
 Begin Date: 5/15/2015
 End Date: _____
 % Ownership: 0
 Position/Title: Manager
 Phone Number: 605-394.6400

Name: Jason Love
 Address: 3824 Jet Drive
 City, State, Zip: Rapid City, SD 57703
 Begin Date: 12/5/2013
 End Date: 12/31/2024
 % Ownership: 0
 Position/Title: Senior Vice President
 Phone Number: 605-394-6400

PAPERWORK REDUCTION STATEMENT

The Paperwork Reduction Act of 1995 (44 U.S.C 3501) requires us to inform you that: Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number. This information is necessary for all successful bidders prior to the distribution of AML funds, and is required to obtain a benefit.

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