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## Header 1

List View

## General Information

Contact

Default Values

Discount

Document Information

Clarification Request

Procurement Folder: 1523821

Procurement Type: Central Purchase Order

Vendor ID: 000000160372

Legal Name: GAI CONSULTANTS INC

Alias/DBA:

Total Bid: \$1.00

Response Date: 10/29/2024

Response Time: 10:02

Responded By User ID: GAIConsultants

First Name: Charles

Last Name: Straley

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Phone: 681-245-8866

SO Doc Code: CEOI

SO Dept: 0313

SO Doc ID: DEP2500000001

Published Date: 10/8/24

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Solicitation Description: AML - EO Morgantown Airport Subsidence Phase II

Total of Header Attachments: 1

Total of All Attachments: 1

**State of West Virginia  
Solicitation Response**

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI Engineering Design Services				1.00

Comm Code	Manufacturer	Specification	Model #
81100000			

**Commodity Line Comments:** GAI Expression of Interest response for design services pursuant to the Morgantown Airport Subsidence Phase II Project. The Contract Amount of \$1.00 is for WVOASIS response only and does not reflect the actual dollar amount that this project may entail.

**Extended Description:**  
EOI Engineering Design Services





Bridgeport Office  
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Bridgeport, West Virginia 26330  
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October 29, 2024

Joseph E. Hager III  
Senior Buyer, State of West Virginia  
Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, West Virginia 25305

Expression of Interest  
Morgantown Airport Subsidence Phase II Project  
CEOI 0313 DEP2500000001

GAI Project #R241421.00

Dear Mr. Hager:

GAI Consultants, Inc. (GAI) welcomes the opportunity to provide our Expression of Interest (EOI) to the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) for the Morgantown Airport Subsidence Phase II Project (Project) located in Monongalia County, West Virginia. GAI proposes to provide professional design services and construction oversight needed for the Project, which is constructed over an Abandoned Mine Lands (AML) eligible coal mine. GAI believes our team is qualified to meet the needs of this Project based on the following considerations:

**EXPERTISE IN ABANDONED MINE LAND (AML) PROJECTS:** GAI has a long-standing reputation for our work associated with AML projects. We have received several notable awards for our AML work with the WVDEP and Pennsylvania Department of Environmental Protection. GAI has provided West Virginia with quality engineering services for the abatement of problems arising from AML since opening our Charleston office in 1985. Additionally, GAI's geotechnical engineers and geologists are experienced in the basic principles of engineering geology, soil and rock mechanics, foundation engineering, subsidence, and mine studies.

**KEY PROJECT LEADERSHIP:** GAI's proposed Project Manager, Jason Gandee, has over 17 years of project management and engineering experience. He has worked on over 25 reclamation projects and is currently the Project Manager for the Belle (Sneed) Drainage Project in Kanawha County for the WVDEP-DLR-AML. Geotechnical Project Advisor, Charles Straley, PE, PLS, MS, is a licensed Professional Engineer (PE) and Professional Licensed Surveyor (PLS) in West Virginia with over 37 years of experience specializing in project management and geotechnical engineering services for over 100 mine reclamation projects throughout West Virginia and Pennsylvania.

**EXPERIENCE WITH FEDERAL AVIATION ADMINISTRATION (FAA) REQUIREMENTS AND PERMITTING:** GAI's FAA Safety/Regulations Project Advisor, Matthew Sickles, PE, has provided consulting and design services to airports across the country, and he understands standards and safety requirements as established by the FAA for airports and airport runways. Dan DePra, PE, GAI's Senior Engineering Director and FAA Safety/Regulations Lead, has over 20 years of experience managing airport projects. Additionally, GAI's subconsultant, C&S Companies (C&S), is a comprehensive engineering, design, and construction firm that has one of the largest aviation-focused groups in the country. C&S has over 55 years of experience delivering aviation consulting and has successfully completed over 2,500 airport planning, environmental, sustainability design, and construction projects.

**WEST VIRGINIA PRESENCE:** GAI has two offices located within the State of West Virginia, including Bridgeport and Charleston. GAI's Bridgeport Office is in the same complex as the WVDEP-DLR-AML's Bridgeport Office. GAI's Charleston Office is located within a 10-minute drive of WVDEP-DLR-AML's Headquarters, located in Downtown Charleston, West Virginia. We are familiar with the region and have a thorough understanding of AML projects.

We look forward to the opportunity to work with the WVDEP-DLR-AML on this important Project. Should you have any questions or would like to speak with us about our EOI or services, please feel free to contact Project Manager, Jason Gandee, at 681.245.6484 or via email at [J.Gandee@gaiconsultants.com](mailto:J.Gandee@gaiconsultants.com).

Sincerely,  
**GAI Consultants, Inc.**

Jason G. Gandee

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Jason Gandee  
Senior Project Manager/Associate

JG:CFS/mdw

Charles F. Straley, PE

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Charles F. Straley, PE, PLS, MS  
Engineering Director/Senior Associate

Attachment: Expression of Interest - Morgantown Airport Subsidence Phase II Project



# EXPRESSION OF INTEREST

## Morgantown Airport Subsidence Phase II Project

Solicitation Number: CEOI 0313 DEP2500000001

October 29, 2024

GAI Project No. R241421.00

*Prepared for:*

**State of West Virginia**

Department of Administration,

Purchasing Division

2019 Washington Street East

Post Office Box 50130

Charleston, West Virginia 25305-0130

Attn: Joseph E. Hager III, Senior Buyer

*Prepared by:*

**GAI Consultants, Inc.**

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- Appendix A - GAI West Virginia AML Project Experience
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## 1.0 COMPANY OVERVIEW

GAI offers a qualified team to provide services to the WVDEP-DLR-AML. Founded in 1958, GAI now has over 1,060 employees in 33 office locations in the United States, including offices in Bridgeport and Charleston, West Virginia, where we currently have 60 personnel working out of these two offices.

### AML EXPERIENCE

GAI has a long history of working on mining-related projects throughout West Virginia and the Northeastern U.S. GAI has provided mining engineering and environmental consulting services to the WVDEP for over 100 AML projects. We have also supported AML projects in Pennsylvania, Ohio, and Maryland. We are familiar with West Virginia and the topography and features of the region and have comprehensive knowledge of the regulatory approval process for various types of projects. Our personnel know West Virginia's geologic and mineral environment, as well as the problems posed by past mining activities and practical methods to alleviate them. We have worked for many years with public and private sector clients to provide economic, effective, and innovative solutions to these problems. GAI's experience with issues involving AML include, but are not limited to:

- AML reclamation studies
- Mine subsidence issues, evaluations, and mine stabilization design
- Mine portal reclamation and mine shaft backfill remediation
- Burning coal refuse piles, coal seams, and underground mine fire investigations/abatement
- Stream restoration and wetlands replacement and development
- Hydrologic and hydraulic (H&H) design of erosion and sediment control (E&SC)
- Landslide investigations and repair
- Environmental liability assessments
- Soil analysis and revegetation plans
- Water quality surveys, feasibility reports, and water supply system designs
- Permitting for deep and surface mine applications
- Geophysical and geotechnical investigations
- Underground ventilation studies
- Economic studies and risk assessments
- Risk assessments
- Abandoned mine drainage remediation
- Design of active and passive acid mine drainage treatment facilities
- Evaluation, operation, monitoring, maintenance, and/or rehabilitation of existing passive and active AMD treatment systems
- Construction monitoring

Additional information about our AML experience can be found in **Appendix A: GAI West Virginia AML Project Experience**; and **Appendix B: Signed Solicitation Forms**, including the AML Consultant Qualification Questionnaires for GAI and C&S Engineers (C&S); AML and Related Project Experience Matrix; AML Contractor Information Form; and AML Entity OFT Information

### AIRPORT AND FAA COMPLIANCE EXPERIENCE

GAI and C&S, our FAA subconsultant, have a successful track record of permitting, design, and construction projects at hundreds of airport facilities. GAI is currently working with the Allegheny County Airport Authority (ACAA) in Pittsburgh, conducting stormwater planning, permitting, and compliance. We have recently negotiated a National Pollutant Discharge Elimination System (NPDES) permit and Consent Order and Agreement and have initiated planning with the ACAA to implement the forthcoming NPDES permit. C&S has successfully managed hundreds of projects, working closely with a diverse group of airports ranging from general aviation to hub airports of various sizes, including non-hub, small, medium, and large. C&S's team is dedicated to helping clients achieve their vision through landside and airside engineering, grants administration, construction services, and other specialized disciplines.



## 2.0 PROJECT UNDERSTANDING & APPROACH

### PROJECT UNDERSTANDING

GAI acknowledges that the WVDEP-DLR-AML is seeking proposals from qualified firms to deliver professional services related to the design and construction oversight for the Morgantown Airport Subsidence Phase II Project (Project). The airport is situated above a coal mine that qualifies for AML funding, which poses a risk of subsidence that could have severe consequences for both the airport infrastructure and public safety. GAI recognizes that no mine maps have been found for the deep mine to date; therefore, the WVDEP-DLR-AML mandates a geotechnical investigation during the design phase to assess coal seam thicknesses, coal pavement elevations, and the status of subsurface open and collapsed mine workings.

GAI understands that the Project will include the following:

- Drilling and grouting of mine workings to stabilize specified areas at the airport;
- Establishing temporary batch plant location(s) and access routes;
- Coordination and permitting with federal and other agencies; and
- Developing safety plans, scheduling, and restrictions as required by the Morgantown Airport and the FAA.

GAI understands that each design must effectively eliminate or mitigate existing hazards to individuals or the public, avoid introducing new risks, and receive certification from a Registered Professional Engineer and a Registered Professional Surveyor in the State of West Virginia for the respective design and survey deliverables. The design work may encompass, but is not limited to, compliance with FAA requirements and permits, registration for NPDES construction stormwater General Permits, West Virginia Division of Highways (WVDOT) MM-109 encroachment permits, consultations with the U.S Army Corps of Engineers (USACE), Department of Health permits (for water lines, if applicable), and relevant city and county permits, including floodplain permits. Additionally, the design work may involve creating construction plans and technical specifications related to stabilizing mine workings, implementing drainage controls and systems, repairing subsidence, and establishing both temporary and permanent access routes for construction, as well as managing stormwater and E&SC.

The elements of the construction oversight work may encompass, but are not restricted to, the following: daily inspections accompanied by documentation throughout the construction phase until final acceptance, engineering oversight and support, evaluation and approval of as-built drawings submitted by the contractor, and the issuance of the Final Engineer's Certification Report for the Project.

GAI recognizes the importance of compliance with regulatory standards and best practices in project management, specifically pertaining to the documentation of deliverables. GAI understands that Project deliverables are to be uploaded into AMLNET, or the current WVDEP-DLR-AML online record-keeping database. GAI is committed to adhering to this requirement, so that Project documentation is uploaded promptly and in accordance with the established guidelines.

### PROJECT APPROACH

GAI aims to function as an extension of the WVDEP-DLR-AML staff, adopting a service-oriented methodology. Our strategy emphasizes consistent and effective communication so that the WVDEP-DLR-AML remains updated on progress and can address challenges related to the Project as they emerge. GAI has established various communication, management, and monitoring systems to oversee this Project, and we are eager to implement these on behalf of the WVDEP-DLR-AML. The Project Management Plan (PMP) developed by GAI will serve as a framework for managing and conveying the Project's scope, schedule, and budget, thereby facilitating the successful execution of this initiative. This PMP encompasses: Project Approach, Coordination and Scheduling, Contract Management, and the Implementation of a Health and Safety Plan.

#### Project Approach

Project Management will be overseen by Mr. Jason Gandee, who operates from GAI's Charleston Office. He will be accountable for the daily management and performance of this Project. Mr. Gandee will examine the WVDEP-DLR-AML work directive and develop the Scope of Services along with the Cost Proposal. A comprehensive written Proposal, which will include a detailed cost estimate covering man hours and expenses related to the Project, will subsequently be prepared and submitted to the WVDEP-DLR-AML for their review. Following the approval of GAI's Proposal by the WVDEP-DLR-AML, Mr. Gandee will coordinate the initiation of the work. This will encompass Project staffing, the arrangement and specification of the Scope of Services to be delivered by GAI, as well as reviewing the Project budget and timeline. Mr. Gandee will oversee the ongoing work and evaluate work products at various stages before submission to the WVDEP-DLR-AML. He will also act as the liaison with the WVDEP-DLR-AML Project Manager, providing Project status reports, as necessary.

Mr. Charles Straley, PE, PLS, MS, will act as the Project Advisor, where he will provide his expertise in AML design projects and in the areas of geotechnical engineering, design of drainage conveyances, subsurface investigations, mining, soil and rock mechanics, subsidence

exploration, foundation and embankment design, slope stability and landslide engineering, impoundment engineering, AMD, water feasibility studies, access for construction, and material construction specifications. Additionally, Mr. Matthew Sickles, PE, will act as GAI's Project Advisor on FAA Requirements. Mr. Sickles has provided consulting and design services to numerous airports throughout the United States.

GAI's Bridgeport Office is conveniently located within the same complex as the WVDEP-DLR-AML's Bridgeport Office. GAI's Charleston office is situated approximately a 10-minute drive from the WVDEP-DLR-AML Headquarters, located in Downtown Charleston, West Virginia. Engineering design tasks will be conducted from GAI's offices in Bridgeport and Charleston, West Virginia, as well as in Pittsburgh, Cranberry Township, and Southpointe, Pennsylvania, as needed. The locations of GAI's offices in Bridgeport and Charleston will facilitate easy access to the Project and the WVDEP-DLR-AML offices.

GAI's large number of experienced staff and range of capabilities permits us to respond quickly, providing flexibility, and includes input to the Project's staff from in-house experts. GAI's method of staffing projects, as evidenced by our performance on prior projects for the WVDEP-DLR-AML, is to assign a team with a skill set that aligns with the Project requirements in support of WVDEP's Project goals and budget. Should it be necessary, the GAI Team can draw on the expertise available within GAI's 1,060+ personnel in our 33 office locations to support this project.

## **Coordination and Scheduling**

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### Project Initiation

As part of the initial steps in the collaborative effort, GAI will convene a kick-off meeting with personnel from the WVDEP-DLR-AML, along with relevant Project stakeholders. This meeting is intended for aligning Project stakeholders on essential operational protocols, particularly focusing on field safety and property access guidelines. During the meeting, attendees will have the opportunity to discuss and confirm the Project schedule, establish clear points of contact for ongoing communications, and outline effective coordination systems that will facilitate seamless collaboration throughout the Project's duration. Emphasizing the importance of safety and clear communication, the kick-off meeting will serve as a foundational step towards achieving the Project's objectives while maintaining compliance with regulatory standards and the well-being of personnel involved.

### Project Communication

GAI is committed to maintaining open lines of communication with the WVDEP-DLR-AML and Project stakeholders through regular conference calls. These calls will serve as a vital platform for discussing the progress of the Project, addressing concerns so that stakeholders remain informed. GAI's Project Manager is prepared to take the lead during these calls, facilitating discussions and guiding the agenda so that critical topics are adequately covered. In support of these communications, GAI will provide a dedicated conference call phone number, enabling the WVDEP-DLR-AML and Project stakeholders to connect easily and efficiently. To enhance collaboration and interaction during the calls, GAI will utilize Microsoft Teams, an effective tool that allows for desktop sharing. This functionality enables the team to display relevant data and visual aids, fostering a more interactive environment for discussion. Throughout the calls, GAI will consistently update the WVDEP-DLR-AML on the Project's status, highlighting key developments, current challenges, and potential hurdles that may impact the Project's timeline or budget.

### Project Scheduling

GAI uses either Primavera, Microsoft Project, or Excel spreadsheets for critical path scheduling, which tracks deliverables, schedule, and budget. GAI will work with the WVDEP-DLR-AML to build a baseline schedule. The baseline schedule is then updated on a periodic basis, typically weekly or monthly, depending on the pace of the Project.

## **Contract Management**

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### Project Accounting

GAI's Project Accounting Group utilizes Deltek Vantagepoint, GAI's enterprise management software, to monitor the cost of each project. GAI Project Managers work with Project Accountants to establish baseline budgets for each project and associated task(s) in Deltek Vantagepoint based on the agreed upon scope and budget. These budgets establish the baseline to monitor and measure project progress and financial performance as the project evolves.

### Invoice Management

To effectively track and manage project budgets, GAI Project Managers leverage the capabilities of Deltek Vantagepoint, supplemented by Project Accounting support. This platform allows GAI to integrate project budgets on a weekly basis, so that financial oversight remains current and accessible. Vantagepoint empowers our Project Managers and Accountants to analyze a wide array of project metrics, such as the awarded value for each task, approved change orders, current invoice amounts, total amounts invoiced to date, remaining approved amounts, and the physical percent complete. This holistic view of financial data facilitates informed decision-making and proactive management of project resources.

In instances where project activities arise that fall outside the established scope, GAI is committed to maintaining transparency and structured documentation. When such activities necessitate change orders, our team promptly develops work plans for approval. Upon receiving authorization, these change orders are incorporated into Deltek Vantagepoint, so that project financials accurately reflect adjustments to scope.

To further enhance collaboration and oversight, GAI proposes routine conference calls dedicated to reviewing the Project budget and pending change orders. These discussions will foster clear communication and enable stakeholders to stay aligned on project progress and budgetary implications.

### Data Management

GAI is poised to enhance the management and sharing of critical digital information through the implementation of server infrastructure. Corporate servers will serve as secure repositories for a variety of essential files, including Microsoft Office documents, GIS shapefiles, CAD files, and PDF mappings. This centralized approach streamlines the storage of diverse formats and makes data accessible to authorized stakeholders.

In an effort to facilitate efficient and secure file sharing with the WVDEP-DLR-AML, GAI will utilize advanced technologies for distribution. A password-protected FX site will be established, allowing users to securely upload and share large files. Additionally, GAI will utilize its Newforma and SharePoint systems to provide direct links to files stored on the corporate server so that stakeholders have access to the documents they need for effective collaboration and decision-making.

This emphasis on secure and effective information sharing underscores GAI's commitment to supporting environmental protection efforts while enhancing operational efficiency. By utilizing these digital solutions, GAI not only fosters collaboration among teams but also safeguards sensitive information, promoting accountability and transparency in our projects.

### **Health and Safety Plan Implementation**

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Health and Safety Plans (HASPs) are essential documents mandated for development and implementation whenever project staff are engaged in fieldwork or site reconnaissance that may expose them to various hazards. The primary purpose of a HASP is to systematically identify and investigate potential risks associated with project activities, prioritizing safety both during transit to the site and while on location. An effective HASP serves as a proactive framework that outlines the specific tasks related to a project and establishes appropriate control measures through a thorough Job Hazard Safety Analysis (JHSA). This process enables teams to recognize hazardous conditions, assess risks, and implement strategies to minimize dangers.

Additionally, the HASP encompasses crucial information about project personnel, including their roles and responsibilities, as well as specifying the required personal protective equipment (PPE) necessary for safe operations. It also mandates project staff training to equip workers with essential knowledge about safety protocols and emergency response procedures. Such training is vital in preparing staff for unexpected situations they may encounter while conducting fieldwork. The implementation of these plans is not limited to GAI staff; it extends to subcontractors as well, for a unified approach towards safety and risk management across personnel involved in the project. By fostering a culture of safety and compliance, the HASP plays a pivotal role in protecting the health and well-being of individuals working on or visiting the project site.

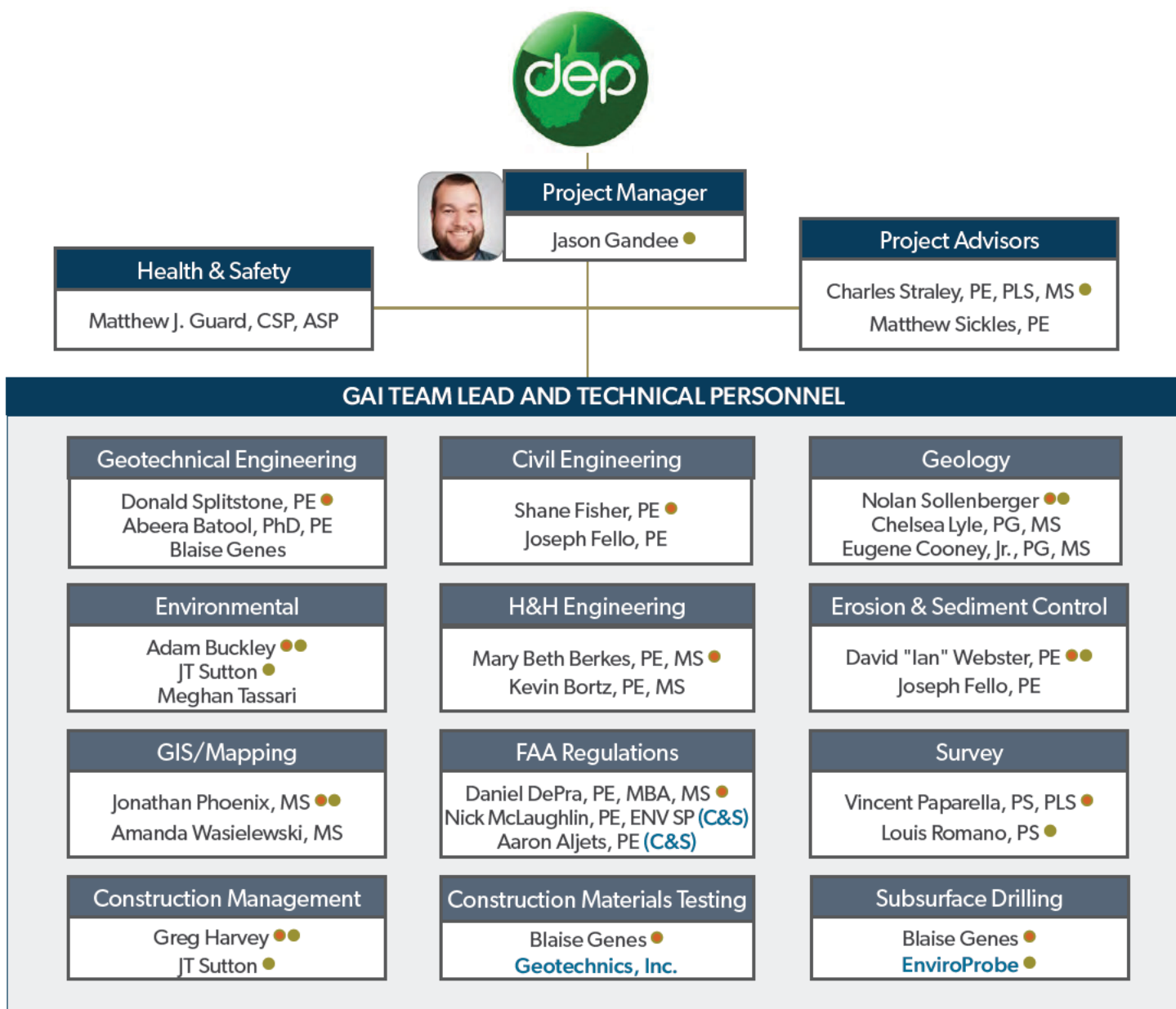


### 3.0 KEY PERSONNEL & SUBCONSULTANT EXPERIENCE

The GAI team is particularly well-suited for this Project due to our AML experience and understanding of working at airports and FAA permitting and requirements. The GAI team's key personnel for this Project specialize in AML and aviation projects. Please see **Figure 1** for GAI's proposed Project Organizational Chart. Resumes of our team's key personnel are provided on the following pages in this section.

GAI understands that this Project may have multiple engineering and environmental disciplines. Should it be necessary, GAI can pull from our dedicated staff of geotechnical engineers, civil engineers, structural engineers, electrical engineers, mechanical engineers, geologists, environmental, and technical personnel to support this important Project for the WVDEP-DLR-AML.

**FIGURE 1 - PROJECT ORGANIZATIONAL CHART**



#### Notes

- Designated Discipline Lead
- West Virginia Office Staff and Subcontractors



## KEY PERSONNEL RESUMES

GAI has included abbreviated resumes of our team's experienced engineers, geologists, environmental specialists, surveyors, Geographic Information Systems (GIS) and mapping specialists, aviation and FAA specialists, construction technicians, and technical personnel who will be dedicated to providing the WVDEP-DLR-AML with a quality team for this AML project.



### Jason Gandee Project Manager



Mr. Gandee is an experienced senior project manager and civil engineer with over 17 years of experience. His experience includes performing civil engineering design for over 25 WVDEP AML reclamation projects. Most recently, he is the Project Manager for the Belle (Sneed) Drainage Project for the WVDEP-DLR-AML. Mr. Gandee's responsibilities have included project management, site reconnaissance to determine the scopes of projects, subsurface monitoring and exploration drilling, preliminary and final design drawings, technical specifications, engineer's cost estimates, and conducting pre-bid and pre-construction meetings with contractors. He also has regulatory agency permitting experience for AML projects, including NPDES construction stormwater permits and USACE regional permits. Mr. Gandee will coordinate and manage fiscal and personnel aspects of the Project. He has a thorough understanding of WVDEP guidelines, specifications, and project expectations.

#### EDUCATION

BS, Civil Engineering Technology,  
West Virginia University Institute of  
Technology

#### SKILLS

Project Management  
Civil Site Design  
Stormwater Management  
Environmental Compliance  
Drainage and Grading Plans  
Erosion and Sediment Control  
Floodplain Studies  
Hydrologic and Hydraulic Design

#### CERTIFICATIONS/TRAINING

HEC-RAS Course, National Highway Institute

#### FIRM/TOTAL YRS. EXPERIENCE

6/17 Years Experience

#### HIGHLIGHTED EXPERIENCE

- **WVDEP Belle (Sneed) Drainage Project, WVDEP-DLR-AML, Kanawha County, West Virginia.** Project Manager. GAI is providing geotechnical investigations and analyses; designing access for construction and future maintenance access; H&H analyses; installation of drainage channels, underdrains, and/or other controls to safely convey water off-site; revegetation of disturbed areas; and required permitting.
- **WVDEP AML Reclamation Projects (25+), WVDEP-DLR-AML, West Virginia.** Project Engineer. Provided civil engineering services for over 25 AML reclamation projects for the WVDEP-DLR-AML. Responsible for site reconnaissance to determine the scope of the project; monitoring subsurface exploration drilling; preliminary and final design drawings; technical specifications; engineer's cost estimate; and conducting pre-bid and pre-construction meetings with contractors. Submitted and obtained NPDES construction stormwater permits and USACE regional permits for the projects.
- **Bond Forfeiture Projects, WVDEP Office of Special Reclamation West Virginia.** Project Engineer. Responsible for developing construction plans to eliminate highwalls; regrading refuse piles; providing H&H design to manage stormwater on the site; designing ponds for active treatment; technical specifications; engineer's cost estimate; and conducting pre-bid and pre-construction meetings with contractors.
- **Floodplain Management Projects, West Virginia.** Project Engineer. Responsible for data gathering for the projects; estimating the hydrology at the site; performing hydraulic modeling of the watershed for existing and proposed conditions using HEC-RAS to determine the flood elevations and impacts; and report summarization.
- **Coal Combustion Residual (CCR) Compliance Project, Energy Client, Pleasants County, West Virginia.** Project Engineer. Assisted in the visual inspection of the CCR landfill and impoundment to identify signs of distress or malfunction. Assisted in completing the inspection report that discussed changes in geometry of the structure, appearance of an actual or potential structural weakness, and any other changes which may affect the stability or operation of the CCR landfill or the impoundment.
- **Solar Development Project, Raleigh County, West Virginia.** Project Engineer. This 500-acre solar development project includes the development of a stormwater construction plan that includes sediment trap design, sediment basin design, and Best Management Practices design. This project required a West Virginia Construction NPDES permit.



## Charles Straley, PE, PLS, MS

### Project Advisor (AML/Geotechnical Engineering)



Mr. Straley is an engineering director and has over 38 years of experience managing and assisting in the design and development for over 95 WVDEP AML mine reclamation projects. He specializes in geotechnical engineering, including aspects of drainage design, landslide investigations, subsurface exploration, foundation and embankment design, slope stability, material and construction specifications, laboratory testing, and construction administration, management, and monitoring. His management experience, combined with his geotechnical engineering expertise, will aid in the successful completion of this Project.

#### HIGHLIGHTED EXPERIENCE

- **Duncan Hill Subsidence Project, WVDEP-DLR-AML, Harrison County, West Virginia.** Project Manager. Monitored subsurface exploration, designed and developed specifications for an abandoned mine subsidence project. The project included stabilizing the abandoned mine workings by injecting cement grout and concrete and providing drainage from a portion of the workings. The project included a bore and jack pipe into the mine workings.
- **Latrobe (Gibson) Landslide Project, WVDEP-DLR-AML, Logan County, West Virginia.** Project Manager. Responsible for the design and preparation of construction documents for a landslide above a residence as an emergency project for the WVDEP-DLR-AML. Activities included: site grading, subsurface investigation, H&H analysis, valley fill design, USACE permitting, preparation of drawings and technical specifications, engineering cost estimate and pre-bid meeting presentation.
- **Owings Mine Complex Project, WVDEP-DLR-AML, Harrison County, West Virginia.** Project Manager. Responsible for the design of a mine reclamation plan. Project included surface and subsurface drainage design (including a concrete box culvert crossing WV County Route 12/4); preparation of technical specifications, including traffic maintenance and other West Virginia Division of Highways (WVDOH) standard specifications and drawings; engineer's cost estimate, and obtaining the USACE permit.

#### EDUCATION

MS, Geotechnical Engineering,  
University of Akron  
BS, Civil Engineering, University of Akron

#### PROFESSIONAL REGISTRATIONS

Professional Engineer (PE): WV, KY, IN, MI,  
OH, TX, VA  
Professional Licensed Surveyor (PLS): WV

#### SKILLS

Project Management  
Subsurface Exploration  
Slope Stability and Landslide Engineering  
Foundation and Embankment Design

#### FIRM/TOTAL YRS. EXPERIENCE

36/38 Years Experience



## Matthew Sickles, PE

### Project Advisor (FAA Coordination)



Mr. Sickles is a civil and environmental engineer with over 35 years of engineering and project management experience in a variety of environmental and infrastructure improvement projects for aviation and municipal clients. His experience spans investigations and studies, designs, bid documents, construction administration and inspection services, resident engineering services, operation and maintenance, and permitting for a wide variety of multidisciplinary projects. Mr. Sickles has provided consulting and design services to airports clients across the country, including Port Authority of New York/New Jersey, Indianapolis Airport Authority, Cleveland Hopkins International Airport, and General Mitchell International Airport, among others.

#### HIGHLIGHTED EXPERIENCE

- **Allegheny County Airport Runway 10-28 Safety Area Improvements Project, Allegheny County Airport Authority (ACAA), Allegheny County, Pennsylvania** Project Director. Responsible for the National Environmental Policy Act (NEPA) Environmental Assessment and professional design services to improve the Runway 10-28 Safety Area to meet standards and safety requirements to the extent practicable as established by the FAA for runways serving the types of aircraft that typically access the airport. The project addresses a variety of environmental concerns and includes modifications to the stormwater management system.
- **Pittsburgh International Airport Deicing Stormwater Improvements Project, ACAA, Pittsburgh, Pennsylvania.** Project Director. He has been the Project Director since project inception, helping the ACAA to address the discharge of Deicing Impacted Water to receiving streams. Currently he is actively assisting the ACAA in negotiating a NPDES permit and Consent Order and Agreement, which will serve as the pathway for the project moving forward.

#### EDUCATION

BS, Environmental Engineering, Pennsylvania  
State University

#### PROFESSIONAL REGISTRATIONS

Professional Engineer (PE): PA

#### AFFILIATIONS

Airports Council International North America  
- Water Quality Working Group

#### FIRM/TOTAL YRS. EXPERIENCE

5/35 Years Experience





## Donald Splitstone, PE

### Geotechnical Engineering Lead



Mr. Splitstone is an Assistant Engineering Director with over 28 years of experience specializing in design and construction of geotechnical engineering projects, including developing geotechnical investigations, treatment schemes, details, plans, and specifications for various design projects. His experience includes slope stability analysis, shallow and deep (driven and drilled) foundations, various types of retaining walls and support of excavation, embankment and cut-slope stability, landslide investigations and remediations, karst conditions, and flexible and rigid structural pavement.

#### HIGHLIGHTED EXPERIENCE

- **Landslide Investigation and Remediation Project, Doddridge County, West Virginia.** Lead Geotechnical Engineer. Managed analysis and design calculations to develop slope stabilization recommendations. Recommendations included Soldier Pile & Lagging (SP&L) walls socketed into drilled shafts; a micropile "insert" or "A-Wall" with micropiles tied together with a cap beam; and a several soil nail slope and wall options. Final design included development of final analyses, specifications, plans and details of the selected soil nail wall option and associated site civil and drainage construction.
- **Allegheny County Airport Runway 10-28 Safety Area Improvements Project, ACAA, Allegheny County, Pennsylvania.** Lead Geotechnical Engineer. Design includes installation of over 500,000 cubic yards of fill, an Engineered Material Arresting Bed (EMAS) at each runway end, new access roads, new Air Operations Area fence, relocation of FAA equipment, new runway threshold lighting, and modifications to the stormwater management system.
- **Expressway Project, Government Client, Fayette County, Pennsylvania.** Lead Geotechnical Engineer. Performed analysis and design calculations to develop roadway and structure foundation recommendations. The project included the design of mine grouting and stabilization, spread footings, pile and drilled shaft foundations, slope stability and settlement analysis, and embankment and cut-slope design in addition to typical design work associated with the roadway.

#### EDUCATION

Graduate Studies, Geotechnical Engineering,  
University of Pittsburgh

BS, Civil and Environmental Engineering,  
University of Pittsburgh

BS, Engineering Physics, Miami University

#### PROFESSIONAL REGISTRATIONS

Professional Engineer (PE): WV, FL, OH, PA

#### SKILLS

Subsurface Investigation Design and  
Inspection

Foundation Design (Shallow and Deep)

Specialty Geotechnical Construction

#### FIRM/TOTAL YRS. EXPERIENCE

9/28 Years Experience



## Abeera Batool, PhD, PE, ENV SP

### Geotechnical Engineer



Dr. Batool is an Engineering Manager with over 16 years of experience specializing in various aspects of geotechnical engineering including site characterization, developing geotechnical design parameters, design of shallow and deep foundations, retaining walls, and support of excavation. Her expertise includes stability and seismic evaluations, design of landslide remediations, management of geotechnical information for green infrastructure projects, and providing on-site construction supervision.

#### HIGHLIGHTED EXPERIENCE

- **Shawville North Remedial Project, PADEP Bureau of Abandoned Mine Reclamation (BAMR), Clearfield County, Pennsylvania.** Geotechnical Engineering Lead. GAI is providing mining engineering services for this reclamation project that consists of one pre-act Abandoned Mine Land Feature (AMLF). Responsible for the coordination to obtain additional geotechnical data; preparing the geotechnical engineering report, including the evaluation of slide stabilization alternatives; and providing recommendations.
- **Mine Refuse Disposal Facilities Projects, West Virginia, Pennsylvania, Kentucky, and Illinois.** Geotechnical Engineer. Responsibilities included: developing and evaluating field and laboratory testing programs; evaluating static and dynamic properties of coal refuse; performing material characterization studies; performing advanced seepage and construction loading rate analyses; performing post-earthquake slope stability analyses and the factors of safety against liquefaction flow failure; determining yield accelerations for estimating permanent deformations; developing piezometric action/warning levels based on tolerable excess pore pressures during construction for field monitoring; summarizing project data and calculation briefs in written reports and oral presentations of the field test results, laboratory testing, analytical results, and conclusions to the client and regulatory agencies.

#### EDUCATION

PhD, Civil Engineering, Virginia Polytechnic  
Institute and State University

MS/BS, Civil Engineering, Virginia  
Polytechnic Institute and State University

#### PROFESSIONAL REGISTRATIONS

Professional Engineer (PE): CA

#### CERTIFICATIONS/TRAINING

Envision™ Sustainability Professional (ENV SP)

#### FIRM/TOTAL YRS. EXPERIENCE

9/16 Years Experience



## Blaise Genes

Geotechnical Engineer / In-Situ Field and Laboratory Testing Program Lead

Mr. Genes' is a Technical Director with over 44 years of experience specializing in project management and implementing in-situ field and laboratory testing programs to characterize and develop undrained shear strength and consolidation properties of hydraulically-placed tailings, ash/sludge, soil and rock materials, and performing seismic hazard assessments, and static and seismic liquefaction triggering analyses of upstream constructed coal refuse and ash/sludge impoundments. He routinely performs the static and seismic analyses for the design and permitting of these structures.

### EDUCATION

BS, Civil Engineering Technology,  
Point Park University

### CERTIFICATIONS/TRAINING

ACS SASSI Workshop

Geotechnical Aspects of Earthquake  
Engineering, SHAKE2000 Workshop

### SKILLS

Geotechnical and Foundation Engineering

Geotechnical Exploration and  
Instrumentation

Landslide Investigation and Remediation

### FIRM/TOTAL YRS. EXPERIENCE

15/44 Years Experience

### HIGHLIGHTED EXPERIENCE

- **West Newton Refuse Embankment Stabilization Project, PADEP BAMR, Westmoreland County, Pennsylvania.** In-Situ Field & Laboratory Testing Program Lead. The site has been declared an environmental and physical safety hazard as multiple surface water runoff points have been documented to be laden with AMD pollution, and has had landslides during heavy rain events that have overrun the rails to trails path and sections of power distribution lines with mining debris.
- **Walkertown Coal Refuse Exploration Drilling Project, PADEP BAMR, Washington County, Pennsylvania.** Project Manager. Responsible for project management and sonic drilling support for this site which includes one AMLF, a Priority 2 Dangerous Pile and Embankment, and Priority 2 Clogged Stream (CS).
- **Shawville North (Remedial Project) PADEP BAMR, Clearfield County, Pennsylvania.** Geotechnical Engineer / Mining Advisor. Lead a geotechnical field investigation to obtain geotechnical information used to develop design alternatives for the landslide mitigation. Oversaw development of slope stability model and geotechnical engineering report for the project.



## Shane Fisher, PE

Civil Engineering Lead

Mr. Fisher is a Project Engineer with over 32 years of experience specializing in civil engineering with experience in environmental permitting, the design and analysis of drainage systems, bridge structures, roadways, and sanitary and industrial water and wastewater systems. His experience meeting Federal Emergency Management Act (FEMA) requirements includes flood mapping, floodplain compliance, and construction monitoring for disaster-related funds. He has most recently been managing erosion and sediment control, construction stormwater, and roadway permitting duties for numerous projects.



### EDUCATION

BS, Civil Engineering Technology,  
Fairmont State University

### PROFESSIONAL REGISTRATIONS

Professional Engineer (PE): WV, GA, MD, NJ,  
NY, NC, OH, PA, VA, WI

### SKILLS

Erosion and Sediment Control Permitting

Stormwater Management Permitting

FEMA/Floodplain Compliance

Drainage System Engineering and Design

### FIRM/TOTAL YRS. EXPERIENCE

10/32 Years Experience

### HIGHLIGHTED EXPERIENCE

- **Confidential In-Lieu-Fee (ILF) Project, WVDEP, Barbour County, West Virginia.** Assistant Engineering Manager. Responsible for E&S oversight and environmental permitting for the implementation of Phase I (Site Acquisition) and Phase II (Pre-Construction Design) of the approved ILF Mitigation Site. GAI is responsible for land acquisition, easement, preparation/ recording, survey, environmental baseline assessments, mitigation plan and design, permitting, and bidding document preparation.
- **Water System Design Projects, Multiple States.** Lead Civil Engineer. Responsible for design of water systems, including collection system design/rehabilitation and pumps stations. Responsible for design and cost estimating for AML projects, sanitary and industrial wastewater projects, solid waste disposal facility design and permitting, and subdivision sewer system design (both gravity and pump station). FEMA work included Letter of Map Amendment (LOMA), flood mapping, floodplain management, and DFIRM database. Visualized and designed rain gardens, infiltration systems, and detention/retention ponds. Conducted environmental permitting, H&H analyses, and quality assurance/quality control monitoring. Developed E&SC Plans, Stormwater Pollution Prevention Plans (SWPPP), and Best Management Practice plans.





## Joseph Fello, PE

### Civil Engineer

Mr. Fello is a Senior Engineering Manager with over 24 years of experience specializing in civil engineering for airports, industrial, and institutional land development projects. He is proficient in green stormwater infrastructure (GSI) and post-construction stormwater management (PCSM) detention, conveyance, volume, and water quality design, as well as Americans with Disabilities Act (ADA) compliance for new construction and construction alterations. He has significant experience with designing E&SC facilities, site grading, roadways, and utilities; NPDES permitting; stream encroachment permitting; and highway occupancy design and permitting.

#### HIGHLIGHTED EXPERIENCE

- **Kanawha Trestle Walk and Bikeway System, Morgantown, West Virginia.** Project Engineer. Responsible for design and permitting for this system. A green strip was designed to capture and infiltrate a large portion of stormwater from the adjacent roadway and conduct it through a series of bioretention cells and swales.
- **Allegheny County Airport Runway 10-28 Safety Area Improvements Project, ACAA, Allegheny County, Pennsylvania.** Lead Civil Engineer. Responsible for site layout, grading, drainage, access road, fence, demolition, and tree clearing design as well as environmental permitting. Coordinated between multiple design disciplines with field staff and with the project owner.
- **Pittsburgh International Airport, Deicing Stormwater Improvements, ACAA, Allegheny County, Pennsylvania.** Lead Civil Engineer. Responsible for analysis of outfall segregation alternative involving capture of deicing pad outfalls and conveying stormwater across the airfield to the potential treatment plant.
- **Valley Park, City of Hurricane, Putnam County, West Virginia.** Project Engineer. Responsible for design and permitting of utilities, GSI/stormwater management, NPDES, and E&SC Plan.

#### EDUCATION

BS, Civil Engineering Technology,  
University of Pittsburgh

#### PROFESSIONAL REGISTRATIONS

Professional Engineer (PE): WV, OH, PA

#### CERTIFICATIONS/TRAINING

Innovations in Stormwater Management and  
Erosion Control Design, ACF Environmental

Erosion and Sediment Control General  
Permit (ESCGP)-2 Permit Training

#### FIRM/TOTAL YRS. EXPERIENCE

14/24 Years Experience



## Mary Beth Berkes, PE, MS

### Hydrology and Hydraulics Lead

Ms. Berkes is a Senior Engineering Manager with over 16 years of experience specializing in hydraulic design for stream restoration, wetland mitigation, and streambank stabilization projects. She also has extensive experience conducting H&H analyses for bridge and culvert replacements, inundation studies and investigations, and design of hydraulic structures. She has completed formal training on Natural Channel Design (NCD) (Rosgen Levels I through IV). Her training resume also includes H&H permitting and procedures and advanced HEC-RAS and scour analyses.

#### HIGHLIGHTED EXPERIENCE

- **Confidential ILF Project, WVDEP, Barbour County, West Virginia.** Civil Engineer. Responsible for the implementation of Phase I (Site Acquisition) and Phase II (Pre-Construction Design) of the approved ILF Mitigation Site. Deliverables included design and hydraulic modeling for over 5,700 linear feet of Level 1 Restoration or Establishment, 4,900 linear feet of Level 3 Restoration, and 2,500 linear feet of enhancement.
- **Stabilization Design to Protect Utilities from Bank Erosion, Multiple States.** Project Manager. Extensive experience (10+ projects) involving pipeline protection through the use of erosion matting. Significant experience (5+ projects) utilizing bank stabilization on large rivers and small streams through bio-engineering methods (geolift with woody toe), hard armoring (sloped riprap), or a hybrid approach. Design was conducted in conjunction with hydraulic modeling to assess impacts on flood elevations, as appropriate.
- **Stream and Culvert Restoration, West Virginia.** Project Manager. Designed on-site stream relocation using NCD methods. Design challenges included working within a constrained environment due to an adjacent roadway and undersized existing culvert to be replaced. Led development of construction support documents including bid forms, quantity estimates, and material specifications and ran on-site pre-bid and pre-construction meetings.

#### EDUCATION

MS, Civil Engineering, Concentration in  
Coastal and Ocean Engineering,  
Oregon State University

BS, Civil Engineering, University of Pittsburgh

#### PROFESSIONAL REGISTRATIONS

Professional Engineer (PE): WV, IN, KY, OH,  
PA, WI

#### AWARDS

2018 Young Professional of the Year -  
Society of American Military Engineers

#### FIRM/TOTAL YRS. EXPERIENCE

14/16 Years Experience

**EDUCATION**

BS, Civil Engineering, West Virginia University

**PROFESSIONAL REGISTRATIONS**

Professional Engineer (PE): WV, KY, NC

**SKILLS**

Erosion and Sedimentation Control

Hydrologic and Hydraulic Design

FEMA regulations

NPDES permitting

Stormwater Systems

**FIRM/TOTAL YRS. EXPERIENCE**

2/9 Years Experience

## David "Ian" Webster

### Erosion & Sediment Control Lead



Mr. Webster is an Assistant Engineering Manager with over nine years of engineering experience. His experience includes the analysis, design, and review of WVDOH's drainage projects, including but not limited to, bridges, stormwater systems, retention and sediment ponds, roadway drainage, and natural stream design. His nine years of experience includes preparing H&H design and reports, FEMA no-rise floodplain certificates, NPDES permits, and roadway and right-of-way (ROW) plans.

**HIGHLIGHTED EXPERIENCE**

- **WVDEP Belle (Snead) Drainage Project, WVDEP-DLR-AML, Kanawha County, West Virginia.** Senior Project Engineer. GAI is providing geotechnical investigations and analyses; designing access for construction and future maintenance access; H&H analyses; installation of drainage channels, underdrains, and/or other controls to safely convey water off-site; revegetation of disturbed areas; and required permitting.
- **WVDOH Hydraulics and Drainage Unit, West Virginia.** Worked for the WVDOH Hydraulics and Drainage Unit providing instruction and technical presentations related to drainage topics such as, hydrologic analysis, culvert design, HEC-RAS, bridge deck drainage and more. Answered technical questions and assisted WVDOH district level engineers with drainage topics. Reviewed consult design projects drainage computations on projects such as, Beckley Z-Way, Arcadia Springs Development, Ralston Branch Bridge, The Jug, Wetzel County, WV 2-dimensional hydraulic analysis and many more.
- **WVDOH Beaver Creek Drainage Project, Raleigh County, West Virginia.** Project Manager. This project included the replacement of a collapsed/failed 48-inch metal culvert. The new culvert had to be anchored into rock due to the severe slope of the ground. Developed and delivered plans, specifications, and estimates.

**EDUCATION**

BS, Geology, West Virginia University

**CERTIFICATIONS/TRAINING**

OSHA 40-Hour HAZWOPER

OSHA 8-Hour Refresher Training

**SKILLS**

Sinkhole Investigations

Groundwater Sampling

Environmental Site Assessments

Construction Monitoring

**FIRM/TOTAL YRS. EXPERIENCE**

14/16 Years Experience

## Nolan Sollenberger

### Lead Geologist



Mr. Sollenberger is an Assistant Geological Specialist with over six years of experience specializing in groundwater sampling, soil logging and sampling, monitoring well construction and installation, sinkhole investigations, spill responses, vapor monitoring, environmental site assessments, and assisting with drilling operations. He has also authored quarterly Remedial Action Progress and Completion Reports, Site Characterization Reports, Remedial Action Plan Reports, and Act 2 Reports. He is proficient with photoionization detector meter, groundwater pumps, and various hand and power tools.

**HIGHLIGHTED EXPERIENCE**

- **WVDEP Belle (Snead) Drainage Project, WVDEP-DLR-AML, Kanawha County, West Virginia.** Project Geologist. Responsible for performing geotechnical drilling inspections. GAI is providing geotechnical investigations and analyses; designing access for construction and future maintenance access; H&H analyses; installation of drainage channels, underdrains, and/or other controls to safely convey water off-site; revegetation of disturbed areas; and required permitting.
- **Allegheny County Airport Runway 10-28 Safety Area Improvements Project, Allegheny County, Pennsylvania.** Project Geologist. Responsible for the geotechnical evaluation, including geotechnical review of existing data, subsurface investigations, borings, geotechnical testing, and geotechnical engineering report.
- **Pipeline Landslides Project, Pennsylvania.** Project Geologist. Responsible for performing geotechnical field explorations and analyses on six landslide areas identified along a pipeline right of way. Project included test borings using a Triggs (WildCat) Dynamic Cone penetrometer (DCP) and lab testing as well as geotechnical reporting and repair plans.
- **Transmission Line Rebuild Project, Virginia and North Carolina.** Project Geologist. Conducted a subsurface exploration and laboratory testing program to obtain parameters for the design of the transmission line structure foundations.



**EDUCATION**

BS, Biology, West Virginia Wesleyan College

**CERTIFICATIONS/TRAINING**

40-Hour Wetland Delineation Training Courses - USACE and Swamp School

**SKILLS**

Environmental Mapping  
Data Interpretation and Analysis  
Stream Monitoring  
Invasive Species

**FIRM/TOTAL YRS. EXPERIENCE**

&lt;1/15 Years Experience

## Adam Buckley

### Environmental Lead

Mr. Buckley has 15 years of environmental experience throughout the Mid-Atlantic Region. His experience includes performing environmental report writing, ArcGIS mapping, federal and state permitting, water quality monitoring, macro-invertebrate community assessments, stream and wetland delineations, and preparing Jurisdictional Determinations and Pre-construction Notifications. Mr. Buckley has worked with federal and West Virginia agencies, non-profit organizations, private companies, Public Service Districts, and mining companies.

**HIGHLIGHTED EXPERIENCE**

- **Regulatory Specialist, North Branch, Regulatory Division, USACE, Huntington District.** Extensive experience with applying laws and regulations when reviewing and permitting Pre-construction Notifications, reviewing and conducting stream and wetland delineations, and reviewing and conducting Jurisdictional Determinations for various types of project purposes. Experience coordinating and communicating with the Environmental Protection Agency, U.S. Fish and Wildlife Service, and State Historic Preservation Office.
- **Environmental Scientist II, Thrasher Group.** Lead environmental scientist on multiple projects, including mining, public utility, and commercial developments. Responsibilities included Pre-construction Notifications, environmental report preparation, coordinating projects with state and federal agencies, stream and wetland delineations, environmental map creation utilizing ArcGIS, and stream bio-assessment and monitoring.
- **Temporary Employee, WVDEP.** Conducted watershed assessment, including water sampling, benthic surveys, and stream flow measurements on waters impacted by AMD from AMLs. The streams were listed on the Clean Water Act's 3030(d) list of Impaired Waters and covered under Title IV of the Federal Surface Mining Control and Reclamation Act.

**EDUCATION**

AS, Civil Engineering, Hagerstown Community College

**REGISTRATIONS**

Professional Surveyor (PS): WV  
Professional Land Surveyor (PLS): KY, NC, ND, PA, VA

**SKILLS**

Surveying and Mapping  
Routing  
Construction Management

**FIRM/TOTAL YRS. EXPERIENCE**

1/30 Years Experience

## Vincent Paparella, PS, PLS

### Lead Surveyor

Mr. Paparella has over 30 years of experience managing survey projects, from small boundary surveys to large oil and gas projects. His expertise includes the construction management, routing, surveying, and mapping of major water body crossings for energy and transportation clients. His project experience ranges from utility work, pipeline work, transmission lines, oil and gas pads, Topographic Surveys, Boundary Surveys, ALTA Surveys, Route Surveys, Utility Surveys, Control Surveys, Volumetric Surveys, and Construction Stakeout. Mr. Paparella is also experienced at providing AutoCAD Drafting (topographic mapping and subdivision plans), preparing legal descriptions, reducing and plotting survey data, and providing boundary determination and calculations.

**HIGHLIGHTED EXPERIENCE**

- **Substation Expansion Project, Mifflin County, Pennsylvania.** Lead Surveyor. The project involves approximately 0.3-acre expansion of the existing substation located within a FEMA delineated floodway.
- **Conservation Easement Survey, Environmental Conservancy Client, Pittsburgh, Pennsylvania.** GAI performed a conservation easement survey for this environmental non-profit organization, registered as a 501(c)3. GAI performed courthouse research of the parcel using previously completed surveys of the parcel to dedicate a 3.5-acre conservation easement from the parent 5.05-acre parcel. Performed the field stakeout of the proposed conservation easement. GAI then provided a drawing showing the conservation easement.
- **Solar Development Projects, Virginia.** Lead Surveyor. Responsible for boundary survey verifications, lease exhibit preparation, and lease area legal description preparation for these proposed solar farms.
- **Substation Expansion Project, York County, Pennsylvania.** Lead Surveyor. Responsible for the topographic and boundary surveys.



**EDUCATION**

MBA, Business Administration, Point Park University

MS, Civil Engineering, University of Pittsburgh

BS, Mechanical Engineering/Chemistry, University of Pittsburgh

**PROFESSIONAL REGISTRATIONS**

Professional Engineer (PE): PA

**CERTIFICATIONS/TRAINING**

Project Management Professional (PMP)

Board Certified Environmental Engineer

**FIRM/TOTAL YRS. EXPERIENCE**

7/31 Years Experience

## Daniel DePra, PE, MS, MBA

### FAA Safety/Regulations Lead

Mr. DePra is a Senior Engineering Director with over 31 years of diverse experience in managing technically challenging large civil and environmental projects, including numerous airport development and improvement projects. Prior to joining GAI, Mr. DePra served as a Project Portfolio Leader and Senior Project Manager for multiple projects at the Allegheny County Airport Authority and other public-sector clients.

**HIGHLIGHTED EXPERIENCE**

- **Allegheny County Airport Runway 10-28 Safety Area Improvements Project, ACAA, Allegheny County, Pennsylvania.** Project Manager for the NEPA Environmental Assessment and professional design services to improve Runway 10-28 Safety Area to meet standards and safety requirements as established by the FAA for runways serving the types of aircraft that typically access the airport.
- **Pittsburgh International Airport On-Call Deicing Action Plan, Environmental Management, and Field Services, ACAA, Pittsburgh, Pennsylvania.** Project Manager and Technical Lead for managing this multi-year on-call environmental engineering management and field services project (2004-2017). Since 1994, the PADEP required the collection of aircraft deicing fluids at the airport and the development of annual "Deicing Action Plans" to characterize the potential impacts to local streams from deicing activities.
- **Deicing/Stormwater Treatment Plant Project, ACAA, Pittsburgh, Pennsylvania.** Project Manager and Permitting Task Leader for the construction, operations, and maintenance of the deicing/stormwater collection treatment plant, separation, and transmission facilities, two retention basins, and site improvements. Impacts from the project included stormwater discharges, stream crossings, stream and wetland encroachments, stream channel modifications, and construction activities within these areas.

**EDUCATION**

BS, Industrial Relations, West Virginia Institute of Technology

**CERTIFICATIONS/TRAINING**

WV DOT TRET Level III Inspector

WV DOH Aggregate Sampler

WV DOH Site Manager

USACE Construction Manager

Asphalt Field and Compaction Technician

Soil and Aggregate Compaction Technician

OSHA 10-Hour Construction Safety & Health Course

**FIRM/TOTAL YRS. EXPERIENCE**

5/29 Years Experience

## Greg Harvey

### Lead Construction Technician

Mr. Harvey is an experienced construction manager and construction inspector for a wide variety of civil engineering projects, including providing construction support services for numerous WVDEP AML projects and is currently providing the WVDEP with construction support services for Solid Waste Characterization Studies at numerous landfills in West Virginia. Major design and construction projects which Mr. Harvey has been involved with include AML reclamation, drainage design, site design, roadway design, permitting, water and sanitary sewer upgrades, transportation inspection, municipal landfills, construction administration, and construction oversight.

**HIGHLIGHTED EXPERIENCE**

- **Historic Mine Structure Stabilization Project, Confidential Government Client, West Virginia.** Construction Manager. Responsible for construction drawing and specification reviews, developing project cost estimates, coordinating and negotiating with the contractor for compliance with construction drawings and specifications, keeping daily reports, reviewing Requests for Information, pay requests, and other submittals. Was also responsible for coordination with the Design Engineer.
- **Civic Center Expansion Project, Confidential Government Client, West Virginia.** Quality Assurance/Quality Control Manager for a \$120+ Million Civic Center Expansion Project located in West Virginia. Duties included oversight of material testing, installation of mechanical systems, fire suppression systems, and new structural elements needed for the expansion.
- **Solid Waste Characterization Study, WVDEP, Office of Environmental Advocate, Rehabilitation Environmental Action Plan, Multiple Counties, West Virginia.** Construction Support. GAI provided Environmental Engineering and Construction Services for this project, which took place at four landfills in West Virginia.





## John Sutton

### Construction Support Specialist



Mr. Sutton has over 34 years of experience specializing in the management and protection of environmental resources throughout West Virginia, Ohio, Pennsylvania, Virginia, Kentucky, Georgia, Maine, Vermont and Maryland. His experience with GAI includes providing construction support, environmental inspection, and working as a project archaeologist.

#### HIGHLIGHTED EXPERIENCE

- **Construction Support Specialist (2017-Present).** Responsibilities include the scheduling and management of a group of Environmental Inspectors involved in the field inspection of active construction and post-construction projects located within West Virginia and Ohio. Also responsible for client coordination on upcoming project permitting and in-progress and post-construction project activities, as well as relaying compliance issues identified as part of project inspections. Duties include continuing personal inspection on-going projects to identify issues of environmental non-compliance as applicable under state and federal regulations and permitting. Serves as a direct liaison between WVDEP inspectors and client representatives.
- **Environmental Inspector (2015-2017).** Responsible for field inspection of active construction and post-construction projects located within West Virginia. Duties included the field inspection of various projects to identify issues of environmental non-compliance as applicable under state and federal regulations and permitting. Results of these inspections findings were utilized in the preparation of project specific reports for submission to clients. In addition, these findings of deficiencies were often relayed to project contractors and used to help develop corrective measures to these deficiencies.

#### EDUCATION

BA, Anthropology, West Virginia University

#### CERTIFICATIONS/TRAINING

HAZWOPER, 40-Hour Hazardous Materials Training

Confined Space Entry and Awareness Training

Subpart S: Underground Construction and Cofferdams Training

Introduction to Federal Projects and Historic Preservation Law, GSA

#### FIRM/TOTAL YRS. EXPERIENCE

16/34 Years Experience



## Jonathan Phoenix, MS

### GIS/Mapping



Mr. Phoenix is a Geographic Information Systems (GIS) Specialist with over 13 years of GIS and mapping experience. He develops base maps, creates spatial data, maintains GIS databases, and creates metadata for new data. Mr. Phoenix utilizes tools such as Esri ArcGIS for Desktop and Server, including 3D Analyst and Spatial Analyst, Google Earth, and Trimble Pathfinder Office. Before joining GAI, he post-processed survey grade data collections utilizing Trimble Business Center. Such differential correction workflow processes were certified to pass certain industry standards such as the FAA DO-200A certification for meeting the Standards of Processing Aeronautical Data. Data processing also met ISO 9001:2008 certification standards.

#### HIGHLIGHTED EXPERIENCE

- **GIS Professional Services Contract, Confidential Energy Client, United States.** Project GIS Specialist. Responsible for the ongoing support of the client's GIS team. Mr. Phoenix analyzes data, develops maps, and manages geospatial datasets for a variety of wind and solar projects; working directly with individuals from the client's engineering, development, meteorology, permitting, legal, and land departments to provide efficient and accurate responses to geospatial questions, while ensuring data integrity. Tasks required may range from maintaining project data as the project evolves to producing maps to be included in submissions to various agencies. Other common responsibilities include providing custom maps or spatial data to aid in internal decision-making processes.
- **Pipeline Projects, Confidential Energy Client, West Virginia and Pennsylvania.** Project GIS Specialist. Responsible for managing and maintaining Global Positioning System (GPS) and GIS data for over 20 pipeline projects. Wetland Delineation and Stream Identification (WDSIR) mapping, field mapping, GPS digitizing, environmental impacts analysis, and GPS import file creation.
- **230kV Transmission Line Project, Confidential Energy Client, Virginia.** Project GIS Specialist. Conducted a route selection study to determine the best corridor for the transmission line. Responsible for mapping the data in ArcGIS pertaining to forest cover, protected lands, agricultural lands, mining or industrial activities, as well as locations of public buildings and utility and road corridors.

#### EDUCATION

MS, Geography, Marshall University

BA, Geography, West Virginia University

#### SKILLS

GIS

Base Map Creation

Geospatial Dataset Management

#### FIRM/TOTAL YRS. EXPERIENCE

11/13 Years Experience



## R. Nicholas McLaughlin, PE, ENV SP

### FAA Regulations Consultant



Mr. McLaughlin has more than 20 years of experience with C&S's aviation group in the design, management, and construction of airport projects. He manages C&S's aviation engineering and construction observation Eastern Region Service Group within the Philadelphia and Syracuse offices. He manages projects throughout the life of the project by assisting clients with preparation of FAA airport capital improvement plans, reviews applications for FAA Airport Improvement Plan (AIP) grant funding; prepares budgets, agreements, and project schedules, coordinates and designs plans, specifications and cost analysis, environmental permitting, airfield design, airfield pavement design, airfield pavement inspection, and construction management.

#### EDUCATION

MS, Mechanical Engineering,  
Alfred University

BS, Mechanical Engineering,  
Alfred University

#### PROFESSIONAL REGISTRATIONS

Professional Engineer (PE): DE, MD, MI, NJ,  
NY, PA, RI, VA

(WV, CT, & DC - in Process)

#### CERTIFICATIONS/TRAINING

Envision™ Sustainability Professional (ENV SP)

#### AFFILIATIONS

American Association of Airport Executives

#### TOTAL YRS. EXPERIENCE

20 Years Experience

#### HIGHLIGHTED EXPERIENCE

- **Allegheny County Airport Runway 10-28 Safety Area Improvements Project, ACAA, Allegheny County, Pennsylvania.** Facility Manager. The pavement rehabilitation portion of the project involved rehabilitating the existing runway pavement, as well as the taxiway tie-ins to 10 feet beyond the hold line, including pavement repairs, joint/crack sealing, milling and bituminous overlay and drainage improvements.
- **Rehabilitate Taxiway A, Millville Airport, Millville, New Jersey.** Facility Manager. The pavement rehabilitation portion of the project involves a full-length rehabilitation of Taxiway A from the Runway 10 end to the Runway 28 end, including pavement milling to grade, geometry modifications joint and crack repair, bituminous overlay, minor grading, drainage repairs, and pavement marking.
- **Reconstruct Taxiway A, Trenton-Mercer Airport, Ewing, New Jersey.** Facility Manager. The project includes the reconstruction of a portion of Taxiway A (23,500 SY). This project entails the reconstruction of the pavement section to accommodate the commercial service aircraft that utilize the taxiway. The original pavement was designed for corporate aviation aircraft. The project also includes minor turf grading, drainage, replacement of the existing taxiway edge lights, signs and cabling from the existing can and conduit system, airfield markings and turf restoration.



## Aaron Aljets, PE

### FAA Regulations Consultant



Mr. Aljets has 24 years of experience in civil and aviation engineering. He leads and coordinates design teams and assumes technical design responsibility for airfield-related projects. He works with clients to help develop their capital improvement plans, grant procurement/management/closeout, quarterly reports, FAA and state DOT aeronautics coordination. He has designed airfield projects at airports ranging from general aviation to large hubs, including runways, taxiways, taxilanes, commercial, cargo and GA aprons, fuel farms, hangar development, and BAK 12/14 Aircraft Arresting Systems.

#### HIGHLIGHTED EXPERIENCE

- **On-Call Consulting Contract, Detroit Metropolitan Airport, Wayne County, Michigan.** Project Manager and technical support for various projects. C&S is providing engineering design and construction administration for airfield development projects, including: FAA Procurement Support; Pavement condition indexing and pavement classification numbering services; Watermain and security checkpoint improvements; Vehicle service road/haul road construction; emergency pavement repairs; and taxiways Y rehabilitation, north and south.
- **Runway 5R/23L and Taxiway D Strengthening and Capacity Enhancement Project, Indianapolis Airport Authority, Indianapolis, Indiana.** Engineer of Record for the demolition design of the reconstruction of Runway 5R/23L and Taxiway D. C&S was responsible for the demolition of existing pavements, storm drainage system, and utility adjustments for the work associated with the Runway, Taxiway, and access roads adjacent to this area. Coordination with the FedEx apron was critical in the development of the demolition plans to provide adequate access and operations for their facility during the construction project. C&S will also be assisting with construction administration and observation.

#### EDUCATION

BS, Civil Engineering, Michigan State  
University

#### PROFESSIONAL REGISTRATIONS

Professional Engineer (PE): IN, MI, OH

#### AFFILIATIONS

Aviation Studies Advisory Board Member,  
Bowling Green State University

Ohio Aviation Association - Member

Michigan Association of Airport Executives

#### TOTAL YRS. EXPERIENCE

24 Years Experience



## PROPOSED SUBCONSULTANTS

### C&S Companies - FAA Consultant



For over 55 years, the Eastern Region of C&S's Aviation practice has worked closely with a diverse group of airports to help clients achieve their visions. As a firm, C&S has successfully completed more than 250 separate airport planning, environmental, design, and construction projects during the past five years, and well over 2,500 during our 55+ years serving airport clients. The majority of their contracts involve multi-year on-call agreements, allowing C&S to deeply understand their clients' needs and function as an extension of their staff.

With offices in Syracuse, Buffalo, and Rochester, New York, and Philadelphia, Pennsylvania, we have successfully managed hundreds of projects eligible for Airport Improvement Program (AIP), Bipartisan Infrastructure Law (BIL), Zero Emission Vehicles (ZEV), and federal and state grants. Additionally, C&S is recognized nationally for their expertise in both large- and small-scale sound attenuation programs.

C&S provides full in-house aviation planning, engineering, and architecture services. They view every airport project as part of a complete lifecycle, and they tailor their approach to help airports meet clients' needs efficiently. C&S's service include: Airfield engineering and design; Architecture; Planning; NAVAIDs and electrical systems; Terminal and other support buildings; Land use + economics; Construction phase services; Sustainability consulting; Funding strategies and grants administration; Community and stakeholder outreach; Fuel facilities; Environmental and NEPA support; Runway incursion mitigation; Centralized receiving and distribution centers; and Entrance roads and landside.



### EnviroProbe Integrated Solutions - Subsurface Drilling Services

GAI is proposing to use EnviroProbe Integrated Solutions (EnviroProbe) for Subsurface Drilling Services and to assist in engineering and testing services. Founded in 2006, EnviroProbe is a woman-owned small business located in Morgantown and Nitro, West Virginia. EnviroProbe's diverse staff includes engineers, environmental professionals, geologists, scientists, Licensed Remediation Specialists, well drillers, equipment operators, inspectors/field technicians, and laborers. EnviroProbe's experienced operators have provided direct-push, environmental drilling, and geotechnical drilling services since 1995. EnviroProbe's staff values safety, holding high standards for both employee and jobsite safety. EnviroProbe is a member of ISNetwork, Avetta, PEC Safety, and SafeLandUSA.

### Geotechnics, Inc. - Construction Materials Testing Services



Geotechnics, Inc. (Geotechnics) will perform Construction Material Testing Services to support projects, as needed. Their geotechnical laboratories are equipped to handle many testing needs. From a few samples with basic classification tests to several hundred samples with a complex series of characterization, compaction, consolidation, strength, and permeability tests. Their facilities enable them to perform a range of tests simultaneously on samples of varying size and their geotechnical laboratories are home to some of the most comprehensive test equipment in the country. The Geotechnics testing laboratory is recognized as being in compliance with NQA-1-1994 Edition Quality Assurance Requirements for Nuclear Facility Applications.



C&S Engineering Photo - Aviation Services

## 4.0 PROJECT EXPERIENCE

### AML Engineering

#### Project Team:

GAI Consultants (Prime)  
EnviroProbe (Drilling)  
Geotechnics (Construction  
Materials Testing)

#### Client:

WVDEP, Office of  
Abandoned Mine Lands &  
Reclamation

#### Services:

Preliminary engineering and  
planning  
Surveying and  
reconnaissance  
Site investigations  
Design access for  
construction and future  
maintenance  
Subsurface exploration and  
laboratory testing  
Hydrologic and hydraulic  
analysis  
Drainage channel design  
and installation  
Construction drawings and  
specifications  
Revegetation  
NPDES permitting  
Stormwater Pollution  
Prevention Plan  
Pre-bid and  
pre-construction meetings  
Periodic construction  
monitoring

#### Project Manager:

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#### Key Personnel:

Jason Gandee  
Charles Straley, PE, PLS, MS  
Nolan Sollenberger  
Ed Mayhood

### Belle (Sneed) Drainage Project

Belle, Kanawha County, West Virginia



GAI is currently providing engineering services to the WVDEP-DLR-AML for the Belle (Sneed) Drainage Project, located in the Town of Belle, Kanawha County, West Virginia. The general project scope consists of drainage conveyance (channels, culverts, and underdrains) away from residential structures.

The goals of the project include:

- Developing construction plans and technical specifications to control associated site water.
- Design plans and develop specifications for limits of disturbance, stormwater control, and erosion and sedimentation prevention. Disturbed areas will be regraded and revegetated.
- Obtain required permitting.

GAI is providing the following design services for the project: preliminary engineering and planning; surveying and reconnaissance; site investigations; subsurface exploration and laboratory testing; H&H analyses; identify areas to be cleared and grubbed; design access for construction and future maintenance; design drainage conveyances, including drainage channels, underdrains, and/or other controls to safely convey water off site; condition and revegetate disturbed areas; construction drawings and specifications; obtain required permitting and miscellaneous clearances; provide pre-bid and pre-construction meetings; and periodic construction monitoring.



## AML Engineering

**Project Team:**

GAI Consultants (Prime)  
Pennsylvania Drilling Co.

**Client:**

Pennsylvania Department of  
Environmental Protection,  
Bureau of Abandoned Mine  
Reclamation

**Services:**

Project management and  
administration

Survey information

Utilities (identification and  
protection)

E&SC Plans

Preliminary, Pre-final, and  
Final design

Permitting

Project bidding

Construction services

Geotechnical services

Soil testing

Analyses and topographic  
survey

**Project Manager:**

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com

**Key Personnel:**

Blaise Genes

Abeera Batool, PhD, PE,  
ENV SP

**Shawville North (Remedial) Project**

Clearfield County, Pennsylvania



GAI is currently providing mining engineering services for the reclamation of the Shawville North (Remedial) Project, located in Clearfield County, Pennsylvania for the Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation (PADEP BAMR). The project consists of one pre-act AMLF and meets the Office of Surface Mining criteria for a Priority 2 Dangerous Slide (DS). The AMLF included in this project is the direct result of mining by the Shawville Coal Company, which operated prior to the 1950s.

The AMLF is approximately 1.8 acres in width and has slid approximately 150 feet, impacting an existing township road below. The project includes repairs to a dangerous slide condition that is impacting the township road. The DS was previously reclaimed but has continued to slide.

GAI is developing a design for excavating the loose material down to bedrock in the steep area of the slide. Subsurface drains will be dug through the previously backfilled material to the previous mining pit to drain subsurface water impacting the backfill. Drainage swells that were left in place will be removed and regraded to redirect surface stormwater flows away from the slide area. The top of the slide will be stabilized to eliminate future creep of the slope onto the township roads below. Once stabilized, this will eliminate a DS area and any further creep of the slope onto the township road below.



## AML Engineering

**Hanover Reservoir Mine Fire Project**

Luzerne County, Pennsylvania

**Project Team:**

GAI Consultants (Prime)

Armstrong Drilling

**Client:**

Pennsylvania Department of  
Environmental Protection,  
Bureau of Abandoned Mine  
Reclamation

**Services:**

Project management and  
administration

Geotechnical engineering  
and subsurface investigation

Detailed drilling program

Standard penetration soil  
sampling

Laboratory testing

Slope stability analysis

Threatened and  
endangered species studies

GIS analysis

Wetland and stream  
delineation

Environmental Assessment

Topographic survey

Mapping

Federal and state permitting

Soil excavation

Erosion and Sediment  
Control Plan

Post-Construction  
Stormwater Plan

Grading Plan

Preliminary and final design  
plans, specifications, and  
cost estimates

Construction administration

**Project Manager:**

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**Key Personnel:**

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James Shields

Eugene Cooney, Jr., PG, MS

Amanda Wasielewski, MS



GAI is currently providing mining engineering services for the Hanover Reservoir Mine Fire Project located in Hanover Township, Luzerne County, Pennsylvania for the PADEP BAMR. The intent of the project is to provide comprehensive evaluation, data collection, project development, design, permitting, and construction administration relating to extinguishing an underground mine fire. The completed project will have the underground mine fire extinguished and eliminate or abate public health and safety hazards associated with surface and underground mining within abandoned mine lands, underground mine fires, and associated spoil piles and pits.

This project includes collecting information to determine the extent of the underground mine fire and identify and evaluate AML features and other resources. GAI is utilizing a detailed drilling program, generally consisting of soil/rock sampling and air rotary drilling. The drilling program includes auger drilling, standard penetration soil sampling, NQ™ wire-line rock coring, and 10-and six-inch diameter air-rotary drilling. A laboratory testing program will classify and characterize site soils, evaluate compaction characteristics, measure British Thermal Units, and provide rock strength properties for excavation and blasting purposes. The GAI field geotechnical representative prepares a temperature log for each new borehole by measuring the temperature at 10-foot intervals using a thermocouple that is lowered into the borehole.

GAI is determining the impact on wetlands, streams, and locations that may be inhabited by threatened and endangered species. GAI is conducting an initial GIS analysis of the project workspace to develop a list of potential environmental constraints within the project area. The analysis will include review of state and federal lands, National Wetland Inventory data, wild and scenic rivers, significant habitats, FEMA flood data, National Hydrography Dataset streams and rivers, and regulatory boundaries in order to assess permitting needs within the project area.

GAI is providing an Environmental Assessment for the project, including a description of the AML; soils map; wetlands information, including a wetlands map, delineation sheets, and water sample results; Pennsylvania State Historic Preservation Office clearance; and the Draft Environmental Assessment for federal lead agency coordination, identifying historic and cultural resources, hydrology, vegetation, fish and wildlife impacts, and other pertinent information.

Additionally, GAI is responsible for the preparation of an AML Reclamation Plan and providing preliminary and final design plans, specifications, and cost estimates. GAI is also preparing an E&SC Plan, a Post-Construction Stormwater Management Plan, in addition to all required permitting. GAI is providing full-time support throughout the entire project. GAI's Project Manager is maintaining and monitoring the schedule and costs associated with the project.



## AML Engineering

**Project Team:**

GAI Consultants (Prime)  
Armstrong Drilling  
Geochemical Testing

**Client:**

Pennsylvania Department of  
Environmental Protection,  
Bureau of Abandoned Mine  
Reclamation

**Services:**

Project management and  
administration  
Geotechnical engineering  
Sonic drilling  
Laboratory testing

**Project Manager:**

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ENV SP  
Charles Straley, PE, PLS, MS

**Walkertown Coal Refuse Exploration Drilling Project**

Washington County, Pennsylvania



GAI is currently providing mining engineering services for the Walkertown Coal Refuse Pile Exploration Drilling Support Project located in West Pike Run Township, Washington County, Pennsylvania for the PADEP BAMR. The project consists of one AMLF within Problem Area 4759, and meets the Office of Surface Mining criteria for a Priority 2 Dangerous Pile and Embankment (DPE) and Priority 2 Clogged Stream (CS).

The site is an existing abandoned coal refuse pile created from the adjacent underground mining on the Pittsburgh Coal Seam from the late 19th century through the 1950s. The site totals approximately seven acres and averages 50 feet in height. The pile is comprised of steep, unstable coal refuse material. Several of the side slopes of the DPE are steeper than 60 degrees with some of the refuse material sliding and depositing into Little Pike Run, creating a CS. The CS is altering the hydraulics of Little Pike Run, which is causing undercutting issues to the streambank along Whitehall Road, an improved public roadway. Downstream there are multiple homes along Pike Run Drive which have had issues with flooding.

GAI is currently providing sonic drilling support and sampling approximately 22 exploration holes. This task involves the preparation of the site for drilling and site restoration after the completion of drilling services. The coal refuse pile is vegetated and tree-covered and requires tracked, heavy equipment to support the drilling services. The depth of holes varies from 15 feet to approximately 90 feet.

GAI is providing full-time support throughout the entire drilling and preparing composite drill samples at five-foot intervals from the continuous drilling to completion of the drill hole. The total estimated number of samples is 151 samples based on 751 feet of sonic drilling and sampling every five feet. GAI will then transport the samples to a testing laboratory.

GAI is also providing project administration services throughout the sonic exploration drilling, including project management. GAI's Project Manager is maintaining and monitoring the schedule and costs associated with the project.



## AML Engineering

**Project Team:**

GAI Consultants (Prime)  
Geotechnics, Inc.  
AWK Consulting Engineers

**Client:**

Pennsylvania Department of  
Environmental Protection,  
Bureau of Abandoned Mine  
Reclamation

**Services:**

Field investigations and  
surveys  
Geotechnical subsurface  
analysis and design  
Stormwater Management  
Plan  
Preliminary and final design  
plans  
Soils amendment  
AMD Remediation Plan  
Pore pressure monitoring

**Project Manager:**

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**Key Personnel:**

Blaise Genes

**West Newton Refuse Embankment Stabilization Project**

Westmoreland County, Pennsylvania



A steel company began disposing of coal refuse from their deep mine on the West Newton Refuse Embankment site in the early 1960's. The pile is built up with coarse refuse material transported by conveyor and fine refuse pumped as slurry from the adjacent coal preparation (prep) plant. Three ponds were constructed on top of the pile. Ponds 2 and 3 contain coal refuse slurry. Pond 1 contains primarily sludge from the adjacent AMD treatment plant. Based on the company's August 19, 1976, site plan map, the pile is shown as 3,300 feet long, 1,300 feet wide on average, and 100 feet to 141 feet high at the pond embankments.

The West Newton Coal Refuse project site is located adjacent to the Monongahela River approximately 1.5 miles south of the Borough of West Newton. The site has been declared an environmental and physical safety hazard as multiple surface water runoff points have been documented to be laden with AMD pollution, and has had landslides during heavy rain events that have overrun the rails to trails path and sections of power distribution lines with mining debris. The site is also plagued with stormwater drainage structures that convey stormwater from the area between the site and the Rails to Trails path to the Monongahela River that are in disrepair and causing severe erosion in and around the laying length of pipes.

The PADEP BAMR tasked GAI with evaluating the site, performing geotechnical boring, developing a site stabilization and stormwater management plan, and soils amendment and AMD Remediation Plan. GAI provided preliminary and final design plans that regraded the refuse pile to provide stable slopes and conveyed stormwater runoff to minimize erosion. The final design amended the coarse soils with bauxite residue ore and topsoil to provide additional soil stabilization, added alkalinity to the site, and remediated AMD laden runoff (pollutants) that had been transported within the site's groundwater and surface water runoffs. GAI's final design was submitted and approved for construction by the Pennsylvania Department of Environmental Protection.



## Aviation Engineering

**Allegheny County Airport Runway 10-28 Safety Improvements Project**

Allegheny County, Pennsylvania

**Project Team:**

GAI Consultants (Prime)

C&amp;S Engineers

**Client:**

Allegheny County Airport Authority

**Services:**

Geotechnical engineering (including geotechnical investigation and lab testing of soils)

Site Civil design

Stormwater Management and permitting

E&amp;SC Plans

Post-Construction

Stormwater Management

Airfield civil design

FAA facilities relocation design

Site survey and subsurface utilities engineering

Environmental investigation of perched groundwater

Highway Occupancy Permit

Bid phase and future engineering services

Utility coordination

Funding and phasing strategy support

FAA coordination

**Project Manager:**Dan DePra, PE, MS, MBA  
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R. Nicholas McLaughlin, PE,  
ENV SP (C&S)

The Allegheny County Airport Authority (ACAA) is improving the Runway 10-28 Runway Safety Area (RSA) at the Allegheny County Airport (AGC) to meet standards and safety requirements to the extent practicable as established by the FAA for runways serving the types of aircraft that typically access the airport. The project is needed as AGC does not currently offer a runway with a standard RSA for runways serving the types of aircraft that typically access the airport. If no RSA improvements are made, then the airport will continue to be in non-compliance with FAA safety standards and the increased risk to aircraft using the airport would persist. Specifically, this Project includes expanding the Runway 10 and Runway 28 RSAs with over 460,000 cubic yards of fill to extend each RSA by 335 feet and widen to 500 feet across the new length, installing a 300-foot long by 170-foot wide Engineered Material Arresting System (EMAS) at each Runway end, and widening the mid-Runway 28 RSA with fill (over 70,000 cubic yards). This project included a wide variety of services including:

- Modifications to existing airport stormwater management system to accommodate the proposed project and design of new stormwater management systems required for the proposed project, including Post Construction Stormwater Management design.
- Minimizing erosion in areas to be cleared of trees and graded, including E&SC Plan design.
- Geotechnical and subsurface utility exploration.
- Procedures for handling perched groundwater during construction.
- Special provisions to avoid impacts to Northern long-eared bats and Indiana bats.
- PAG-02 NPDES General Permit for Discharges of Stormwater Associated with Construction Activities through the Allegheny County Conservation District (ACCD).
- Chapter 105 Permits for various proposed intakes, outfall structures, stream crossings, and roadway crossings through ACCD.
- Grading Permit (with stormwater management calculations).
- Environmental Assessment with the FAA issuing a Finding of No Significant Impact

Project design has been completed. Construction needed to be phased to align with available funding. The first phase, consisting of five years of construction, has been bid and will be awarded by ACAA upon receipt of funding (expected in late 2024) with construction commencing in early 2025.



## Aviation Engineering

**Project Team:**

GAI Consultants (Prime)  
Sci-Tek Consultants  
Collective Efforts

**Client:**

Allegheny County Airport  
Authority

**Services:**

Stormwater planning,  
permitting, and compliance  
Waterways and wetlands  
Environmental  
contaminants  
General environmental  
compliance support  
Sustainability initiatives,  
projects, and strategy  
support  
Phase I and II Environmental  
Site Assessments  
Storage tank compliance  
Oil-water separator  
inspection and oversight  
Integrated Contingency  
Plan  
Spill Response Planning  
Air quality permitting,  
reporting, and compliance

**Project Manager:**

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**Key Personnel:**

Dan DePra, PE, MS, MBA  
Matthew Sickles, PE

**Pittsburgh International Airport Deicing Stormwater Improvements Project**

Allegheny County, Pennsylvania



As required by the FAA for safe winter operations, deicing and anti-icing chemicals are applied at the Pittsburgh International Airport (PIT) to remove frost, snow, and ice from aircraft and airfield surfaces. This practice results in some runoff containing "Deicing Impacted Water" (or DIW) to discharge into McClarens Run and Enlow Run. Over 20 years ago, ACAA conceptualized a solution to mitigate such impacts from DIW discharges - construct an in-stream DIW collection, conveyance, and treatment system (i.e., "Deicing Stormwater Treatment Plant"). ACAA submitted a NPDES permit renewal to the PADEP to construct this new plant. The PADEP took no action on this application for 10 years until August 5, 2020, when the ACAA received a revised draft NPDES permit.

Phase I and 2 of this project focused on coordinating with the PADEP and collecting and evaluating additional data to identify changes to PIT operations and update the Deicing Stormwater Treatment Plant (DSTP) basis of design. This included characterizing load and monitoring flow at seven outfalls; updating the Stormwater Management model for the watershed; establishing an initial baseline of the physical, biological, and chemical quality of receiving streams; and establishing an initial stream restoration strategy. Additionally, the GAI team evaluated traditional treatment alternatives to segregate and treat "whitewater" discharges from four outfalls, primarily for pH and resulting white precipitate. The GAI team also evaluated improvements to deicing chemical source controls to potentially reduce overall discharge to streams.

After evaluating results of Phases 1 and 2, it became clear that the significantly reduced deicing operations at PIT did not justify the construction of a DSTP. Since the DSTP was no longer feasible, GAI supported ACAA to develop a new pragmatic approach that focused on implementing stream and wetland improvements to meet PADEP Consent Order and NPDES permit requirements.

Phase 3 advanced this new approach by updating stream and wetland delineation and benthic survey data to current conditions and preparing a Watershed Assessment Summary and Conceptual Mitigation Plan. The GAI team then advanced the strategy for deicing stormwater and stream mitigation by further refining the Conceptual Mitigation Plan. GAI supported ACAA to obtain a Pennsylvania Department of Transportation Capital Program grant for this task. Upcoming tasks for this project include advancing the Conceptual Mitigation Plan to Preliminary (30%) Design. The GAI team will also advance permitting from the concept to preliminary phase, which includes determining applicability and initiating development of the applicable permits required for this project; establishing permitting strategy with ACAA; and conducting preliminary discussions with the PADEP, ACCD, and USACE to confirm the permitting approach for this project. This task also includes working with the ACAA and FAA to identify, review, and determine the applicability of existing NEPA analysis, as well as update and resubmit a new NEPA document to the FAA for approval.



## Aviation Engineering

**Project Team:**

C&amp;S (Prime)

**Client:**

Wilkes-Barre/Scranton International Airport

**Services:**

Stormwater planning, permitting, and compliance

Comprehensive geotechnical analysis (subsurface drilling and sampling, FWD testing, and data analysis)

Engineering design

Construction management and phasing

**Key Personnel:**

R. Nicholas McLaughlin, PE, ENV SP (C&amp;S)

**Wilkes-Barre/Scranton International Airport Taxiway Rehabilitation Project**

Avoca, Luzerne County, Pennsylvania



C&S designed the rehabilitation of 2,300 feet of Taxiway D from the Runway 28 end to the east intersection with Runway 4-22. Construction started in spring 2020 and involved profile milling to remove the existing asphalt surface course and partial and full-depth pavement repairs for existing failing pavement areas. A bituminous concrete overlay was applied to full strength pavement areas. 12.5-foot paved shoulders were added to accommodate snow removal operations around the lights.

Adjustments were made to taxiway geometry to meet current design standards. Lighting and signage was replaced with LED lighting for energy efficiency, and signs were cabled to the correct circuits.

To address stormwater issues deficient/deteriorating drainage components were replaced. Stormwater management and soil erosion control features were included and existing paved surface in the same watershed was removed to offset the expanded pavement from this project.

The C&S team included a comprehensive geotechnical analysis, including subsurface drilling and sampling, falling weight deflectometer (FWD) testing, and data analysis to determine the most cost-effective pavement rehabilitation solution.

C&S designed geometry changes so the taxiway will accommodate the airport's current fleet mix, including TDG-II and TDG-III aircraft. Using AutoCAD Aviplan Turn Pro, we verified that the most demanding aircraft, the Airbus A320, could use the taxiway, even allowing for a full taxiway edge safety margin.

The construction phasing minimized the impact of construction operations on the airport and tenants while promoting construction efficiency and overall safety. Only one phase encompassed the entire rehabilitation area, taking around 80 days to complete. Work in each of the three areas was concurrent to minimize runway/taxiway closure. Runway 10-28 was closed during the entire project, while Runway 4-22 closures depended on the specific work area. Separate work areas were developed to allow for special conditions with the main runway RSA and its ILS critical area.

## 5.0 REFERENCES

The following are references of GAI clients served in recent years by one or more members of the designated Project Team.

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## 6.0 AVAILABLE RESOURCES

### CURRENT STAFFING AND WORKLOAD

Since its inception in 1958, GAI has grown into 33 offices, spanning the Northeastern, Midwestern, and Southern United States, housing approximately 1,060 dedicated employees. This extensive geographical footprint allows the firm to effectively manage and execute multiple projects concurrently, ensuring that client needs are met with efficiency and expertise. The stability of GAI's workforce includes a tenured senior and supervisory staff, many of whom have been with the company for over a decade—some for as long as 25 years. This longevity fosters a secure and cohesive work environment, promoting continuity and a deep understanding of best practices within the firm.

GAI assigns each project with a dedicated Project Manager who oversees the project from inception to completion, providing a consistent point of contact. This approach positions the GAI team to successfully meet the anticipated workload for this Project while maintaining the quality of service that clients like the WVDEP expect. GAI does not anticipate that current and/or future commitments would impact the personnel and resources required for this Project.

### OFFICE LOCATIONS AND RELEVANT HEADCOUNT

GAI anticipates utilizing personnel for this Project from our offices of Bridgeport and Charleston, West Virginia, and Pittsburgh, Cranberry Township, and Southpointe, Pennsylvania. Office locations and relevant headcounts of each office are located in the table, below.

Bridgeport	Charleston	Pittsburgh	Cranberry Township	Southpointe
107A Cambridge Place Bridgeport, WV 26330 T. 304.808.6680 F. 304.808.6684	500 Lee Street, Suite 700 Charleston, WV 25301 T. 304.926.8100 F. 304.926.8180	385 East Waterfront Dr. Homestead, PA 15120 T. 412.476.2000 F. 412.476.2020	600 Cranberry Woods Drive, Suite 250 Cranberry Twp, PA 16066 T. 724.772.2011 F. 724.772.2050	501 Technology Drive, Suite 1300 Canonsburg, PA 15317 T. 724.873.3545 F. 724.873.3549
Headcount: 28	Headcount: 32	Headcount: 288	Headcount: 72	Headcount: 25

## 7.0 CLOSING

The GAI team is excited about the opportunity to work with the WVDEP-DLR-AML on this AML Project, and we look forward to speaking with you about our AML experience and our EOI in greater detail. We believe that we can be a strong partner with the WVDEP-DLR-AML, working together towards the success of the Morgantown Airport Subsidence Phase II Project. Should you have any questions or would like to speak with us about our EOI or services, please feel free to contact Senior Project Manager, Jason Gandee at 681.245.6484.

### Project Contacts

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# APPENDIX

# A



GAI WEST VIRGINIA AML PROJECT EXPERIENCE

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title:	WVDEP Belle (Sneed) Drainage Project
Location:	Kanawha County, WV
Tasks:	The scope of work includes potentially three mine portal closures and to develop plans for drainage conveyance (channels, culverts, and underdrains) away from residential structures. Construction plans and technical specifications are being developed.
Title:	WVDEP Duck Creek (Jenkins) Landslide
Location:	Harrison County, WV
Tasks:	The scope of work involves the design of stabilization measures for the slide and design of seepage and stormwater drainage controls. Construction plans and technical specifications were developed.
Title:	WVDEP Wolfpen (McBurney) Landslide
Location:	Kanawha County, WV
Tasks:	The scope of work involves stabilizing a slope, providing seals for collapsed portals, and providing controlled drainage. Construction plans and technical specifications were developed.
Title:	WVDEP Latrobe (Gibson) Landslide Emergency Project
Location:	Logan County, WV
Tasks:	The scope of work involved emergency evaluation and investigation to develop alternatives to reduce slopes, eliminate instability, and provide for controlled drainage. Once an alternative was selected, construction plans and specifications were developed.
Title:	WVDEP Charleston (Ratcliffe) Landslide
Location:	Kanawha County, WV
Tasks:	The project included subsurface investigation; research of mine mapping; and determination if the slide was due to mining.
Title:	WVDEP Mulberry Fork (Stover) Landslide
Location:	Fayette County, WV
Tasks:	The project included subsurface investigation and design of corrective measures for a landslide.
Title:	WVDEP Courtright Highwall
Location:	Bridgeport, WV
Tasks:	The project included a subsurface investigation to determine extent of landslide and whether mining related, field surveying to establish topographic mapping and control, and subsequent design of landslide repair alternatives. Design ultimately selected included a reinforced slope using stabilizing grid. Landslide contained 400,000 cubic yards of material.
Title:	WVDEP Belle (Malcolm) Landslide
Location:	Belle, WV
Tasks:	Landslide stabilization including excavation of slide mass, sealing of several mine entries, and drainage controls. Project included drilling, sampling, and piezometer installation and monitoring to develop project plans and specifications.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title: WVDEP Williamson (Elias) Landslide - Emergency  
Location: Williamson, WV  
Tasks: Subsurface investigation and determination of whether or not a landslide threatening one home was mining related with subsequent development of plans for a retaining wall were conducted.

Title: WVDEP Kitchen/Gibson Landslide - Emergency  
Location: Boone County, WV  
Tasks: Subsurface investigation and determination of whether or not a landslide threatening four homes was mining related were conducted.

Title: WVDEP Duck Creek Landslide  
Location: Gilmer County, WV  
Tasks: The project included subsurface investigation, development of construction specifications and drawings, and construction monitoring for remedial work on a landslide resulting from uncompacted strip bench spoils.

Title: WVDEP Ven's Run Maintenance Project  
Location: Harrison, County, WV  
Tasks: The scope of work involves stabilizing the slopes and provide for controlled drainage. It is GAI's initial approach to the abatement of the landslide is to provide a proposed reclamation plan that will grade the slide in place as much as practical and not conduct a total removal of material.

Title: WVDEP Oldfield Branch (Hall) Drainage  
Location: Mingo County, WV  
Tasks: The scope of work involved providing mine seals or bat gates for four mine entries, landslide mitigation with a retaining wall, and providing proper drainage control measures. We also prepared and obtained a Stormwater NPDES Permit and USACE 404 permit.

Title: WVDEP Laurel Point Strip  
Location: Monongalia County, WV  
Tasks: The project consisted of two sites. The scope of work involved regrading and soil covering refuse pile, constructing access roads, providing streambank stabilization, sealing the mine portal(s), backfilling highwalls, landslide reclamation, providing proper drainage control measures and revegetating the areas. Construction plans and technical specifications were developed. We also prepared and obtained a Stormwater NPDES Permit and WVDOH permits.

Title: WVDEP Mingo County PSD Feasibility Study (ID#405)  
Location: Mingo County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing of the previous water system' supplies; researching water quality records; designing and costing remedial measures; and summarizing the findings in a report



## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title: WVDEP Amigo Portals  
Location: Raleigh County, WV  
Tasks: The scope of work involved providing closure of 19 mine portals with bat gates or mine seals, covering exposed refuse, providing stream realignment and streambank protection, and providing proper drainage control measures. We also prepared and obtained a Stormwater NPDES Permit and USACE 404 permit.

Title: WVDEP Larry Frederick Highwall & Refuse  
Location: Harrison County, WV  
Tasks: The scope of work involved providing closure of three mine portals mine seals, regrading and reseeding an exposed refuse, revegetation of a highwall bench, and providing proper drainage control measures. We also prepared and obtained a Stormwater NPDES Permit.

Title: WVDEP Eastern Wyoming County PSD Feasibility Study (ID#401)  
Location: Wyoming County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP Raleigh County PSD Feasibility Study (ID#397)  
Location: Raleigh County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP Wheatley Branch (Luthy) Portals  
Location: Logan County, WV  
Tasks: The scope of work involved several locations of abandoned trash piles, access road construction, 29 mine seals, and providing proper drainage control measures. We also prepared and obtained a Stormwater NPDES Permit, WVDOH MM-109 permits and a non-reporting nationwide USACE 404 permit.

Title: WVDEP Webster County Commission Diana Area Feasibility Study (ID#383)  
Location: Webster County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP Cherokee Complex  
Location: McDowell County, WV  
Tasks: The scope of work involved providing regrading and soil covering of the refuse pile, providing natural stream restoration and streambank protection, structure demolition, and providing proper drainage control measures. We also prepared and obtained a Stormwater NPDES Permit and USACE 404 permit.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title: WVDEP Reynoldsville Refuse  
Location: Harrison County, WV  
Tasks: The project consisted of 11 sites. The scope of work involved providing regrading and soil covering refuse piles, construct access roads, provide streambank stabilization, sealing mine portal(s), bat gates, demolition of mining structures, filling of vertical shafts, regrade sink hole areas, provide proper drainage control measures, and revegetate the areas. Construction plans and technical specifications were developed. We also prepared and obtained a Stormwater NPDES Permit and WVDOH permits.

Title: WVDEP Earling Refuse Pile  
Location: Logan County, WV  
Tasks: The scope of work included regarding the refuse pile, provide streambank stabilization, stream restoration, seal the mine portal(s), bat gates, and provide proper drainage control measures. Construction plans and technical specifications were developed. We also prepared and obtained a Stormwater NPDES Permit.

Title: WVDEP Erbacon CR9 Webster County WL Feasibility Study (ID#376)  
Location: Webster County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP Kanawha Rambling Hills Water Study  
Location: Kanawha County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP Davis Creek Water Study  
Location: Kanawha County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP Coalburg Water Study  
Location: Kanawha County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title: WVDEP Wallace 353 Water Study  
Location: Harrison and Wetzel Counties, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP Wallace 354 Water Study  
Location: Harrison County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP Greystone Mine Drainage  
Location: County, WV  
Tasks: The scope of work involves providing seals for the collapsed portals, backfilling the highwalls, reclamation of the refuse pile, and providing proper controlled drainage including natural stream design. Construction plans and technical specifications were developed.

Title: WVDEP Route 60 Drainage  
Location: Fayette County, WV  
Tasks: The scope of work involves providing seals for the collapsed portals, design of controlled drainage, and design of a pneumatic concrete wall for a rock highwall. Construction plans and technical specifications were developed.

Title: WVDEP Lynch Run Highwall #6  
Location: Gilmer County, WV  
Tasks: The scope of work involves providing seals for the collapsed portals, backfilling the highwalls, reclamation of the refuse pile, and providing proper controlled drainage including natural stream design. Construction plans and technical specifications were developed.

Title: WVDEP Mallory Refuse Pile  
Location: Logan County, WV  
Tasks: The scope of work involves regarding the refuse pile, sealing the mine portal(s), and design of drainage control measures. Construction plans and technical specifications were developed.

Title: WVDEP Heizer Creek (Lett-Zitselberger) Drainage  
Location: Putnam County, WV  
Tasks: The scope of work involves stabilizing a slope, providing seals for collapsed portals, and providing controlled drainage. Construction plans and technical specifications were developed.



## **ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE**

- Title: WVDEP Hominy Creek Area Waterline Extension Feasibility Study  
Location: Nicholas County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
- Title: WVDEP Logan (Marcum) Drainage Emergency Project  
Location: Logan County, WV  
Tasks: The scope of work involves emergency evaluation and investigation to develop a method to collect and discharge the seepage from the coal seam and conveyance to a downstream drainage system. Construction plans and specifications were developed.
- Title: WVDEP Bud/Alpoca Waterline Extension Feasibility Study  
Location: Wyoming County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
- Title: WVDEP Nuriva/Maben Waterline Extension Feasibility Study  
Location: Wyoming County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
- Title: WVDEP Herndon Heights Waterline Extension Feasibility Study  
Location: Wyoming County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
- Title: WVDEP Handley/Upper Creek Drainage Project  
Location: Kanawha County, WV  
Tasks: The reclamation plan included dewatering the underground impoundment(s) and creating diversion ditches to redirect the drainage around structures to the nearby stream; regrading the areas behind the retaining wall; revegetating the area; and providing proper drainage for all disturbed areas.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

- Title: WVDEP War Waterline Extension Feasibility Study  
Location: McDowell County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
- Title: WVDEP Clark's Gap Waterline Extension Feasibility Study  
Location: Mercer and Wyoming Counties, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
- Title: WVDEP War (Dash) Impoundment  
Location: McDowell County, WV  
Tasks: The scope of work included providing aerial mapping and ground survey for verification of two sites consisting of a small impoundment, several mine portals, and coal refuse disposal. In addition, stability analyses were performed on various scenarios for the elimination of the impoundment including subsurface investigation.
- Title: WVDEP Whites Run Highwall and Portal  
Location: Randolph County, WV  
Tasks: The scope of work consist of preparing construction documents for the reclamation of 6,000 linear feet of highwall, three deep mine portals, a coal refuse spoil area, and treatment of AMD. The treatment of the AMD will utilize passive treatment techniques. The project also includes re-establishment of a stream by natural stream techniques.
- Title: WVDEP Helen Portals  
Location: Raleigh County, WV  
Tasks: The scope of work included the preparation of construction documents for four sites, consisting of abandoned mine portals, unstable refuse piles, small impoundment, and demolition of a mining related structure. The project also included re-establishing a stream by natural stream techniques.
- Title: WVDEP Ned's Branch Impoundment (Phase II)  
Location: Mingo County, WV  
Tasks: The scope of work included this preparation of construction documents for reclamation of the failed impoundment. The scope of work included regrading of refuse, eliminating impoundment capability, sealing of mine portals, stream restoration, highway relocation and construction management services for the above activities.

## **ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE**

Title: WVDEP Bearwallow Branch Refuse Pile  
Location: McDowell County, WV  
Tasks: The scope of work included the preparation of construction documents for reclamation of seven sites. The various sites consist of unstable refuse piles, abandoned mine portals, small impoundments, and miscellaneous structures.

Title: WVDEP Community of Preston - State Route 72 Waterline  
Location: Preston County, WV  
Tasks: The scope of work included the preparation of construction documents for a water transmission line. The total length of waterline is approximately 1.1 miles.

Title: WVDEP Anchor Road Water Pumping, Storage and Distribution Feasibility Study  
Location: Logan County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP Standard, Paint Creek, & Collinsdale Waterline Extension Feasibility Study  
Location: Kanawha County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.

Title: WVDEP McAlpin Eroding Dump - Phase II  
Location: Raleigh County, WV  
Tasks: The scope of work included the preparation of construction documents for eleven sites. The sites consisted of ten coal refuse piles (one of which is burning), numerous mine openings (both collapsed and open), old mine buildings, possible AMD, and various mine related debris.

Title: WVDEP McAlpin Eroding Dump - Phase I  
Location: Raleigh County, WV  
Tasks: The scope of work included the preparation of construction documents for six sites. The sites consisted of six coal refuse piles, numerous mine openings (both collapsed and open), old mine buildings, possible AMD, and various mine related debris.

Title: WVDEP Kingwood 52/6 Water Supply Extension  
Location: Preston County, WV  
Tasks: The scope of work included the preparation of construction documents for a water transmission line. Included in the distribution system are a 96,000-gallon water storage and a booster pump station. The total length of waterline is approximately 13 miles.



## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title:	WVDEP Micajah Ridge - Herndon Heights/Iltman Waterline Extension Feasibility Study
Location:	Wyoming County, WV
Tasks:	The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
Title:	WVDEP Water Feasibility Study, Glen Rogers Study Area
Location:	Wyoming County, WV
Tasks:	The scope of work included local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the investigation in a report.
Title:	WVDEP Rt. 20/Gould Community Waterline Extension Feasibility Study
Location:	Upshur County, WV
Tasks:	The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
Title:	WVDEP Water Feasibility Study, Elkins/Buckhannon Study Area
Location:	Upshur County, WV
Tasks:	Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the investigation in a report.
Title:	WVDEP Laurel Creek Subdivision Subsidence
Location:	Raleigh County, WV
Tasks:	Preparation of construction documents for the Laurel Creek Subdivision Subsidence project in Beckley, WV. Project involved subsurface investigation (including borehole camera work); sampling of mine water; injection plan layout for grouting under over 40 residences; surface water drainage structure, preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre-construction meetings.
Title:	WVDEP Superior (PocaLand) Complex
Location:	McDowell County, WV
Tasks:	The assessment included a site reconnaissance, asbestos observations and sample analysis, lead-based paint observations and analysis, and limited surficial soil sample analysis. The assessment was concluded in a report to aid in evaluating the existing subsurface soil quality in the area to better understand the costs involved during reclamation efforts.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

- Title: WVDEP Washington Heights to Jeffrey Waterline Extension  
Location: Boone County, WV  
Tasks: The project involved a technical review plans and specifications presented by the WVAVWC as part of the Boone County Public Service District: Regional Water Supply System. The plans included a total of seven contracts. The scope of work was to identify areas of the contracts that were within project limits set by a Phase II Water Feasibility Study conducted for the WVDEP and to determine the amount of the contract costs that were the responsibility of the WVDEP. Included were field reconnaissance, review of plans, hydraulic calculations, and cost estimating.
- Title: WVDEP Water Feasibility Study, Gaymont, Edmond, and Winona Study Area  
Location: Fayette County, WV  
Tasks: Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the investigation in a report.
- Title: WVDEP Water Feasibility Study, Hominy Creek Study Area  
Location: Nicholas County, WV  
Tasks: Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the investigation in a report.
- Title: WVDEP Elk Creek / Verner Waterline Extension Feasibility Study  
Location: Logan County, WV  
Tasks: The scope of work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
- Title: WVDEP Orlando Mining Facility  
Location: Gilmer County, WV  
Tasks: The scope of work included preparation of a report identifying the results from an investigation/evaluation of the facilities and equipment at the site. The investigation included determining the value, usefulness and/or condition of the facilities and equipment.
- Title: WVDEP Scotch Hill / Miller Hill Water Supply Extension  
Location: Preston County, WV  
Tasks: The scope of work included the preparation of construction documents for a water transmission line beginning at the existing hydro pneumatic booster station. Included in the distribution system is 96,000-gallon water storage. The total length of waterline is approximately 7.5 miles.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title:	WVDEP Camp Run AMD
Location:	Barbour County, WV
Tasks:	The scope of work included the preparation of construction documents for two sites. The sites consisted of 10-to-15 mine portals and mine drainage seep locations, one pond (to be drained), concrete tramway abutments (and debris), coal refuse, and various areas of saturated soil from mine drainage (one of which is sliding).
Title:	WVDEP Mahan Tipple and Refuse Maintenance
Location:	Fayette County, WV
Tasks:	The scope of work included the preparation of construction documents for the repair of a sliding reclaimed coal refuse pile. The project consisted of installing a rock toe buttress and drainage channels
Title:	WVDEP Johnsons Knob
Location:	Fayette County, WV
Tasks:	The scope of work included the preparation of construction documents for four sites. The sites consisted of five coal refuse piles totaling approximately twenty acres, numerous mine openings (consisting of auger hole and portals, both collapsed and open), six old mine buildings, possible AMD, and various mine related debris (including two old conveyors and a collapsed tipple).
Title:	WVDEP Carolina Refuse
Location:	Marion County, WV
Tasks:	The project consisted of two sites. The sites consisted of a refuse pile totaling approximately three acres, various non-mine related debris, and two concrete mine shafts with some various debris.
Title:	WVDEP Omega Mine Complex Project
Location:	Monongalia County, WV
Tasks:	The project involved writing a final report to the Electric Power Research Institute to include a comparison of the pre- and post-injection water quality data, the results of a post-construction benthic survey, and the results of an analysis of data from injection operations.
Title:	WVDEP Omega Mine Complex Completion
Location:	Monongalia County, WV
Tasks:	The scope of work included the preparation of construction documents for a booster station upgrade as part of the Omega Mine Complex project. Hydraulic analyses were performed, new pumps were selected, and a demonstration was made that the new pumps had higher efficiencies than the old pumps. Construction documents for the booster station upgrade and pressure reducing assembly were prepared.
Title:	WVDEP Hutchinson Subsidence
Location:	Fairmont, WV
Tasks:	Preparation of construction documents for the Hutchinson Subsidence project in Fairmont, WV. Project involved subsurface investigation (including borehole camera work); sampling of mine water; injection plan layout for grouting under three residences; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre- construction meetings.



## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title:	WVDEP Fairmont (Grandstaff) Subsidence
Location:	Fairmont, WV
Tasks:	Evaluation of potential subsidence effects for the Grandstaff Subsidence project in Fairmont, WV. Project involved subsurface investigation (including borehole camera work); sampling of mine water; and preparation of a report describing the findings of the above investigations.
Title:	WVDEP City of Summersville (Rt. 39)
Location:	Nicholas County, WV
Tasks:	The project included the review of another consultants water feasibility study report and determination if the findings of the report were accurate.
Title:	WVDEP Reynoldsville, Wallace, and Clarksburg Water Supply Extension Project
Location:	Harrison County, WV
Tasks:	The project included a feasibility/rate analysis, design of 9,400 feet of 8-inch water line, 33,000 feet of 6-inch water line, 12,200 feet of two-inch water line, a 96,000-gallon (nominal) water storage tank, and other appurtenances, selection, surveying, and geotechnical investigation of a water storage tank site, and preparation of construction documents, regulatory permit applications, and an engineer's report.
Title:	WVDEP Mill Creek Regional Water Supply Extension Project
Location:	Logan County, WV
Tasks:	Preparation of construction documents for the construction of water transmission lines, a water distribution system, two water storage tanks, a booster station, two hydro pneumatic tanks, and a water treatment plant. The total length of water line to be constructed was approximately 34 miles.
Title:	WVDEP Majesty Mine Complex
Location:	Barbour County, WV
Tasks:	Preparation of construction documents for the reclamation of the Majesty Mine Complex. The Majesty Mine Complex was an abandoned mine site which included old mine structures, open mine portals, unreclaimed refuse piles and an extensive highwall, existing wetlands and ponds, and numerous seeps producing acid mine drainage (AMD).
Title:	WVDEP Phase II Water Feasibility Study, Washington Heights to Jeffrey Study Area
Location:	Boone County, WV
Tasks:	Phase II water feasibility study for private water supplies in the Washington Heights to Jeffrey Study Area in Boone County, WV. Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report. Work was completed on a "fast track" schedule.
Title:	WVDEP Evaluation of Construction Documents, Gauley River Water Line Extension
Location:	Fayette and Nicholas Counties, WV
Tasks:	Evaluation of construction documents for the Gauley River Water Line Extension, to be funded by AML. Evaluation included a review of technical specifications and drawings; evaluation of hydraulics; completion of letter summarizing the evaluation; and meetings to discuss the evaluation.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

- Title: WVDEP Evaluation of Construction Documents, Heizer/Manila Creek Water Line Extension  
Location: Putnam County, WV  
Tasks: Evaluation of construction documents for the Heizer/Manila Creek Water Line Extension, to be funded by AML. Evaluation included a review of technical specifications and drawings; evaluation of hydraulics; completion of letter summarizing the evaluation; and meetings to discuss the evaluation.
- Title: WVDEP Owings Mine Complex  
Location: Harrison County, WV  
Tasks: GAI evaluated the water quality and potential passive AMD treatment system design at the Owings Mine Complex Site. The project included identification of monitoring points (streams and AMD discharges); sampling and analysis of monitoring points for a three-month period; preparation of a report summarizing the findings; and conceptual design of passive AMD treatment system including costs. GAI also prepared construction documents, including grading and drainage design for four refuse piles and various other refuse areas; design of seals for 18 mine portals; and preparation of technical specifications, drawings, and an engineer's cost estimate.
- Title: WVDEP Omega Mine Complex  
Location: Monongalia County, WV  
Tasks: Preparation of construction documents for the Omega Mine Complex project in Monongalia County, WV. The project involved the injection of coal combustion byproduct grouts into mine workings to help alleviate the generation of AMD. Work included subsurface investigation; surveying; grout mix evaluation; acid-base accounting analysis of overburden and coal; and preparation of drawings, technical specifications, and engineer's cost estimate.
- Title: WVDEP Mill Creek - Isom Community  
Location: Logan County, WV  
Tasks: Design of water system to service approximately 800 residents of the Mill Creek-Isom Community in Logan County, WV. Work included sizing of water treatment plant, four water tanks, four booster stations, one pressure reducing valve, and approximately 23 miles of water line. Construction cost was estimated at approximately \$5,500,000.
- Title: WVDEP Phase II Water Feasibility Study, Weaver-Junior Study Area  
Location: Randolph and Upshur Counties, WV  
Tasks: Phase II water feasibility study for private water supplies in the Weaver-Junior Study Area in Randolph and Upshur Counties, WV. Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the investigation in a report.
- Title: WVDEP Phase II Water Feasibility Study, Reynoldsville, Wallace, and Clarksburg Study Area  
Location: Harrison County, WV  
Tasks: Phase II water feasibility study for private water supplies in the Reynoldsville, Wallace, and Clarksburg Study Area in Harrison County, WV. Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the investigation in a report.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title: WVDEP Mainella Subsidence  
Location: Marion County, WV  
Tasks: Preparation of construction documents for the Mainella Subsidence project in Fairmont, WV. Project involved subsurface investigation (including borehole camera work); sampling of mine water; injection plan layout for grouting under three residences; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre- construction meetings. Approximately 15 injection holes were proposed at an estimated construction cost of approximately \$138,000.

Title: WVDEP Glen Morgan Subsidence  
Location: Raleigh County, WV  
Tasks: Preparation of construction documents for the Glen Morgan Subsidence project near Beckley, WV. Project included subsurface investigation (including borehole camera work); base mapping development; sampling of mine water; injection plan layout for grouting under one residence; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre-construction meetings. Estimated construction cost was approximately \$164,000.

Title: WVDEP Harris AMD  
Location: Harrison County, WV  
Tasks: Preparation of construction documents for the Harris AMD site in Harrison County, WV. Project included subsurface investigation; surveying; sampling of mine discharges; design of channels, wet seals, and drain pipes; preparation of technical specifications, drawings and engineer's cost estimate; and participation in pre-bid and pre- construction meetings. Bid construction cost was approximately \$65,000.

Title: WVDEP Lefthand Fork (See) Burning Refuse  
Location: Logan County, WV  
Tasks: Preparation of construction documents for Lefthand Fork (See) Burning Refuse project. Project included subsurface investigation including temperature probe readings; surveying; refuse processing evaluation; grading and drainage design for regrading of refuse pile; delineation of burning refuse areas; design of excess material disposal site; completion of IBR for relocating existing bonded haul road; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre-construction meetings. Bid construction cost was approximately \$940,000.

Title: WVDEP Summerlee Refuse - Post Construction Water Quality  
Location: Fayette County, WV  
Tasks: Water sample collection, analysis, and evaluation at the reclaimed Summerlee Refuse site. Findings were summarized in a report.

Title: WVDEP Cow Creek - Sarah Ann Water Supply Extension Project  
Location: Logan County, WV  
Tasks: Preparation of construction documents for the Cow Creek - Sarah Ann Water Supply Extension project in Logan County, WV. Project included subsurface investigation; design of three water tanks, three booster stations, one master meter assembly, and approximately 19 miles of waterline; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre-construction meetings. Bid construction cost was approximately \$4,800,000.



## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

- Title: WVDEP Godby Branch Water Supply Extension  
Location: Logan County, WV  
Tasks: Preparation of construction documents for the Godby Branch Water Supply Extension project. Project included subsurface investigation; surveying; design of water tank, booster station, and approximately 2.5 miles of water line; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre-construction meetings. Bid construction cost was approximately \$680,000.
- Title: WVDEP Phase II Water Feasibility Study, New Haven Study Area  
Location: Fayette County, WV  
Tasks: Phase II water feasibility study for private water supplies in the New Haven Study Area in Fayette County, WV. Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report. Conceptual design of water system included sizing a water treatment plant, one booster station, five water tanks, and approximately 87 miles of water line. Estimated construction cost was approximately \$13,800,000.
- Title: WVDEP Phase II Water Feasibility Study, Gauley River Study Area  
Location: Fayette and Nicholas Counties, WV  
Tasks: Phase II water feasibility study for private water supplies in the Gauley River Study Area. Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the investigation in a report.
- Title: WVDEP Phase II Water Feasibility Study, Heizer and Manila Creek Community  
Location: Putnam County, WV  
Tasks: Phase II water feasibility study for private water supplies in the Heizer and Manila Creek Community in Putnam County, WV. Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
- Title: WVDEP Phase I Water Feasibility Study, Reynoldsville, Wallace, & Clarksburg Study Area  
Location: Harrison County, WV  
Tasks: Phase I water feasibility study of the Reynoldsville, Wallace, & Clarksburg Study Area in Harrison County, WV to evaluate the potential for pre-1977 mining activity to have degraded the water supplies of residents. Work included interviews, record searches, field reconnaissance, and preparation of remedial action cost estimates. A report summarizing the findings was submitted.
- Title: WVDEP Phase I Water Feasibility Study, Weaver-Junior Study Area  
Location: Randolph and Upshur Counties, WV  
Tasks: Phase I water feasibility study of the Weaver-Junior Study Area in Randolph and Upshur Counties, WV to evaluate the potential for pre-1977 mining activity to have degraded the water supplies of residents. Work included interviews, record searches, field reconnaissance, and preparation of remedial action cost estimates. A report summarizing the findings was submitted.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

- Title: WVDEP Phase I Water Feasibility Study, Matheny Hill Study Area  
Location: Harrison County, WV  
Tasks: Phase I water feasibility study of the Matheny Hill Study Area in Harrison County, WV to evaluate the potential for pre-1977 mining activity to have degraded the water supplies of residents. Work included interviews, record searches, field reconnaissance, and preparation of remedial action cost estimates. A report summarizing the findings was submitted.
- Title: WVDEP Duncan Hill Subsidence No. 2  
Location: Harrison County, WV  
Tasks: Completed subsidence evaluation investigation at the Duncan Hill Subsidence No. 2 project site in Clarksburg, WV. Work included subsurface investigation; mapping development; surveying; records review; water sampling; and preparation of a report summarizing the findings. The report did not recommend stabilization for the structures in the project area, due to a lack of evidence that subsidence was causing problems.
- Title: WVDEP Urso Subsidence  
Location: Fairmont, WV  
Tasks: Field reconnaissance, resident interviews, videotape surveys of existing conditions, subsurface investigation, surveying, and subsequent evaluation to determine if mine subsidence was affecting structures within a several block area of Fairmont. Ultimately, stabilization program was limited to 5.4-acre area with approximately 28 residences and businesses. Construction documents, including drawings, technical specifications, and engineer's cost estimate were prepared. Proposed construction included approximately 140 injection holes and 18,000 cubic yards of injection material. Construction cost was estimated at approximately \$1,200,000.
- Title: WVDEP Phase I Water Feasibility Studies  
Location: Brooke County, along Gauley River in Fayette County & Nicholas Counties, and New Haven area (around Hico) in Fayette County, WV.  
Tasks: Preliminary investigation of three separate communities to evaluate the possibility that pre-1977 mining activity degraded water supplies. The investigation included a review of mining records, existing water quality data, and conductance of resident interviews to assess possible impacts. Separate reports were prepared for each community, documenting findings and providing a cost estimate for extending public water supply systems.
- Title: WVDEP Phase II Water Feasibility Study, Mill Creek Study Area  
Location: Boone, Lincoln, and Logan Counties, WV  
Tasks: Phase II water feasibility study for private water supplies in the Boone County Community, Lincoln County Community, and Logan County Community all encompassed in the Mill Creek Study Area. Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in separate reports for each community. Estimated construction cost for extending a public water supply to residents of the Mill Creek Study Area was approximately \$15,400,000 and included one water treatment plant, one booster station, seven water storage tanks, and approximately 40 miles of water line.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

- Title: WVDEP Phase II Water Feasibility Study, Godby Branch Community  
Location: Logan County, WV  
Tasks: Phase II water feasibility study for private water supplies in the Godby Branch Community in Logan County, WV. Work included interviewing local residents and government officials; collecting and analyzing surface and private water supply samples; researching water quality records; designing and costing remedial measures; calculating the percentage of wells that had been degraded by mining activity; and summarizing the findings in a report.
- Title: WVDEP Madison Street/Fairview Route 218 Portals  
Location: Marion County, WV  
Tasks: Preparation of construction documents for the Madison Street/Fairview Route 218 Portals project. Work included subsurface investigation; surveying; design of wet mine seals and associated drains at multiple sites; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre-construction meetings.
- Title: WVDEP Summerlee Refuse Project  
Location: Fayette County, WV  
Tasks: Preparation of construction documents for the Summerlee Refuse pile project. Project included subsurface investigation; surveying; water quality sampling; grading and drainage design for regrading and revegetation of 60-acre refuse pile, two impoundments, and two ponds; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre-construction meetings.
- Title: WVDEP Putnam County Phase I Water Studies  
Location: Two communities in Putnam County, WV  
Tasks: Preliminary investigation of the Manila Creek and Heizer Creek areas of Putnam County to determine the possibility of pre-1977 mining activity degrading water supplies. Study included review of historical mining records, geological data, and resident interviews to assess possible impacts. Report prepared documenting findings and a cost estimate for extending public water supply system.
- Title: WVDEP Boone County Phase I Water Studies  
Location: Various communities in Boone County, WV  
Tasks: Preliminary investigation of the Greenview/Big Branch, Ramage/Six Mile Creek, Secoal/Jeffrey/Obes Branch, Hewett Creek/Missouri Fork, and Meadowfork communities of Boone County to determine the possibility of pre-1977 mining activity degrading water supplies. Study included review of historical mining records, geological data, and resident interviews to assess possible impacts. Reports prepared documenting findings and cost estimates for extending public water supply systems.
- Title: WVDEP Duncan Hill Subsidence  
Location: Clarksburg, WV  
Tasks: Field reconnaissance, resident interviews, videotape surveys of existing conditions, subsurface investigation, borehole video camera surveys, and surveying to determine whether subsidence was affecting numerous homes, water tank, and YMCA over a 16-acre area. Development of report documenting that damages to water tank and YMCA were not subsidence related. Preparation of stabilization plan including plans, specifications, etc. for residential area.



## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title: WVDEP Phase II Logan Water Feasibility Study  
Location: Logan County, WV  
Tasks: Investigation to determine the percentage of residents in the Cow Creek, Crooked Creek and Upper Rum Creek communities whose ground water supplies had been degraded by pre-1977 mining activity. Field reconnaissance, mine map and mine permit records search, interviews, water sampling and analysis, and classification via piper diagrams were conducted.

Title: WVDEP Cora Mine Drainage No. II  
Location: Logan County, WV  
Tasks: Mine drainage abatement project included drilling and water analysis with subsequent design of several mine seals with piping and channels to convey flow to the receiving stream. Project included boring and jacking pipeline under railroad.

Title: WVDEP Covey Creek Mine  
Location: Logan County, WV  
Tasks: Field reconnaissance, historical records review, and subsurface investigation to determine extent of mine fire and to develop options for remediation.

Title: WVDEP Logan Phase I Water Study  
Location: Logan County, WV  
Tasks: Preliminary investigation of the Clothier, Cow Creek, Crooked Creek, Godby Branch, Godby Heights, Upper Rum Creek, and Whitman Creek/Holden communities to determine the possibility of pre-1977 mining activity degrading the water supplies of the communities. Field reconnaissance, interviews, and mining and water quality record searches were conducted, and a remedial cost estimate was provided with reports summarizing the findings for each community.

Title: WVDEP Vivian Refuse Pile  
Location: Vivian, WV  
Tasks: Subsurface investigation, surveying, and design for reclamation of a large coal refuse pile and two mine entries. Plans, specifications, cost estimate, coal refuse reprocessing evaluation, and supporting documents for regrading over 150,000 cubic yards of refuse, surface water control, mine seals, and riprap toe protection were completed.

Title: WVDEP Kimball Refuse Piles  
Location: Kimball, WV  
Tasks: Subsurface investigation, surveying and design for reclamation of three coal refuse piles and six mine entries. Design included replacement of a water well and related supply piping for the town of Kimball. Completed preparation of plans, specifications, cost estimate, coal refuse reprocessing report, WV Department of Health permit for new well, and other supporting documents for reclaiming this large site with over ½ million cubic yards of regrading.

Title: WVDEP Hampden (Smith) Bridge  
Location: Mingo County, WV  
Tasks: Design of metal arch culvert to replace a bridge to allow access to a landslide repair project. Development of plans and specifications were on a fast-track schedule.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

- Title: WVDEP Bear Run Refuse  
Location: Gilmer County, WV  
Tasks: Field reconnaissance to establish project limits, develop reclamation options, and collect water quality information to design a wetlands reclamation project. Subsurface investigation, surveying, and development of aerial mapping for 160 acres were conducted. Plans, specifications, cost estimate, reprocessing evaluation and report, and permit application assistance to develop reclamation plan for 13 former coal refuse disposal ponds/impoundments and three refuse piles were completed. Plan included developing and enhancing wetlands.
- Title: WVDEP Beaver Creek Waterline Extension  
Location: Barbour and Randolph Counties, WV  
Tasks: The project included design of a 1.5 mile, 6-inch diameter water line extension including fire hydrants, stream crossings, and service to 13 residents. Preparation of plans, specifications, cost estimate, and supporting documents were completed.
- Title: WVDEP Garrison Complex  
Location: Garrison, Boone County, WV  
Tasks: Subsurface investigation, surveying, and design for the removal of a railroad embankment posing a water impounding hazard were conducted. Project also included several mine entries and surface water runoff control channels. Plans, specifications, cost estimate, and supporting documents were prepared.
- Title: WVDEP Cassity Fork Water Supply Extension  
Location: Randolph County, WV  
Tasks: The project consisted of a water study to document existing water quality and impacts due to mining, subsurface investigations, surveying, and design of an eight-mile waterline extension including booster station, reservoir, pressure reducing valves, and provision for fire flow. Preparation of plans, specifications, cost estimate and supporting documents, and a review of contractor submittals during construction were conducted.
- Title: WVDEP Beckley (Queen Street) Subsidence  
Location: Beckley, WV  
Tasks: Subsurface investigation to determine if mine subsidence was responsible for damages experienced by a home was conducted. Preparation of a report documenting that subsidence was not responsible for the observed damage was completed.
- Title: WVDEP Jonben (Haga) Subsidence  
Location: Jonben, WV  
Tasks: Subsidence control on an emergency basis including sinkhole backfilling and drainage control. Project included drilling to determine the extent of mining and subsidence, field surveying to develop topographic mapping, and development of a backfilling and drainage plan.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title:	WVDEP Holden (Padgett) Subsidence
Location:	Whitman Junction, WV
Tasks:	The project included subsurface investigation to determine extent of mine workings, development of stabilization plan including drainage channels/pipes, and mine seals. Construction documents were prepared, and participation in pre-bid and pre-construction meetings was completed.
Title:	WVDEP Minden Mine Fire
Location:	Minden, WV
Tasks:	The project included subsurface investigation to determine source and extent of underground fire.
Title:	WVDEP Doug Gray Subsidence
Location:	Fairmont, WV
Tasks:	Subsidence control by injecting grout to fill mine voids. Project included exploratory drilling and sampling including both vertical and angle borings with the subsequent development of a grouting program to support homes and businesses in Fairmont, WV.
Title:	WVDEP St. John's Road Subsidence
Location:	Brooke County, WV
Tasks:	Subsurface investigation and development of specifications and construction drawings for remedial work on mine subsidence affecting 30 acres and 50 homes were conducted.
Title:	WVDEP High Coal Tipple
Location:	Boone County, WV
Tasks:	The project included development of specifications and construction drawings for remedial work on 16 mine portals and an abandoned tipple and its several associated structures.
Title:	WVDEP Route 19/28 Subsidence
Location:	Harrison County, WV
Tasks:	The project included subsurface investigation and development of construction specifications and drawings, and topographic mapping for remedial work on mine subsidence affecting a road.
Title:	WVDEP Omar Refuse Piles
Location:	Logan County, WV
Tasks:	The project included subsurface investigation and development of specifications and construction drawings for remedial work on regrading five refuse piles with over 330,000 cubic yards of earthwork, and sealing six mine portals and a large vertical shaft.
Title:	WVDEP Mt. Hope (Sawyer) Subsidence
Location:	Fayette County, WV
Tasks:	The project included subsurface investigation and development of construction specifications and drawings, and topographic mapping for remedial work on mine subsidence affecting one home.



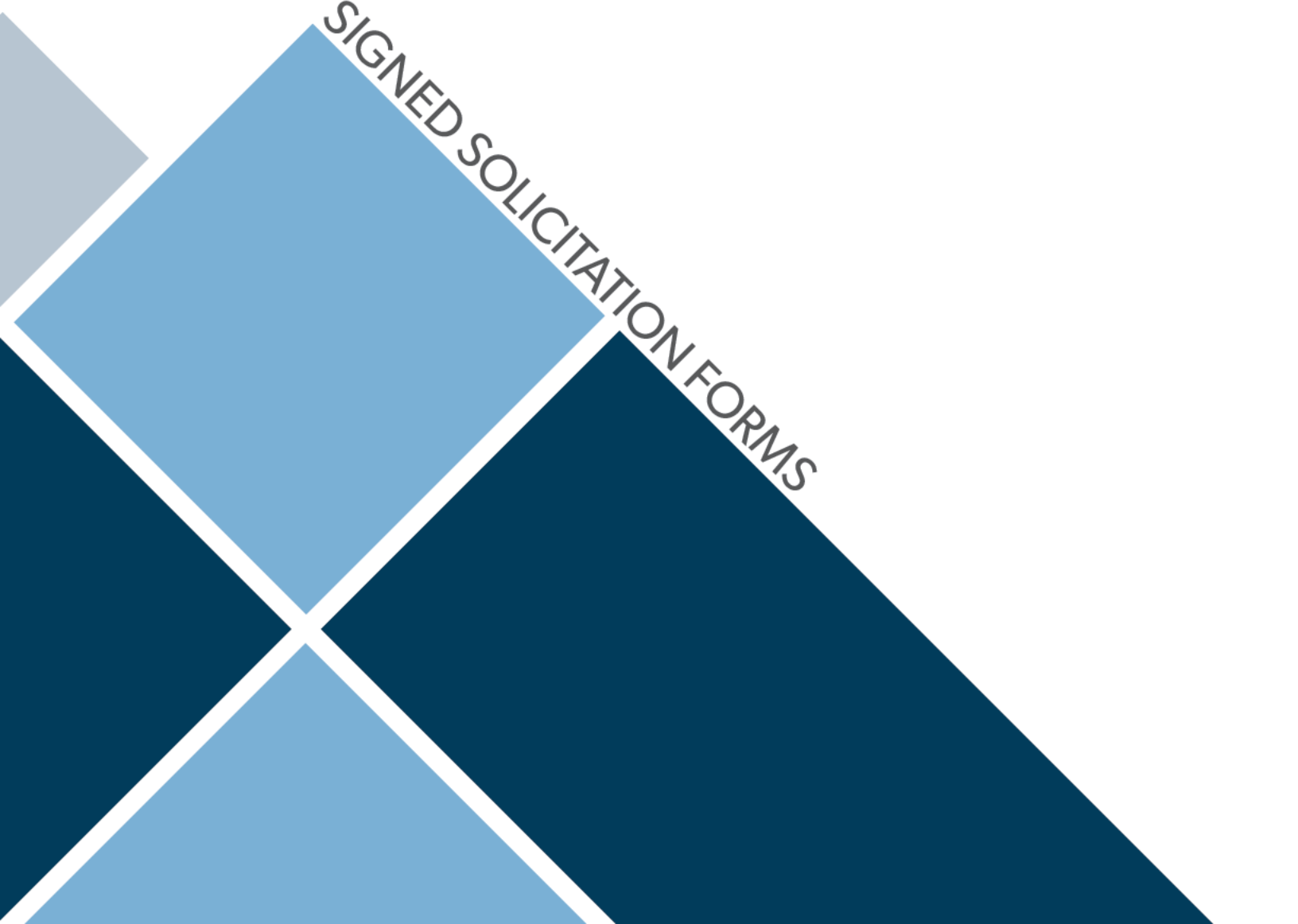
## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

Title:	WVDEP Morgantown Airport Drainage
Location:	Morgantown, WV
Tasks:	The project included subsurface investigation and development of construction specifications and drawings, and some topographic mapping for remedial work on mine subsidence effecting a day care center and an airport access road, and for closure of four mine portals below the end of a runway.
Title:	WVDEP Logan Drainage Project
Location:	Logan, WV
Tasks:	The project included subsurface investigation and development of construction specifications and drawings, and some topographic mapping for remedial work on four mine portals, a mine seep, and 400 feet of abandoned conveyor with its headhouse and loadout platform.
Title:	WVDEP Huffman Street Subsidence
Location:	Fairmont, WV
Tasks:	The project included subsurface investigation and development of construction specifications and drawings for remedial work on mine subsidence affecting 20 homes.
Title:	WVDEP Switzer/Adams/Robinson Drainage
Location:	Logan County, WV
Tasks:	The project included subsurface investigation and development of construction specifications, drawings, and topographic mapping for remedial work on three mine portals, including the design of an energy dissipater with associated piping under railroad and state highway.
Title:	WVDEP Follansbee (Hultsburg) Drainage
Location:	Brooke County, WV
Tasks:	The project included subsurface investigation and development of construction specifications and drawings for remedial work on acid mine drainage problems.
Title:	WVDEP Fairmont East Subsidence
Location:	Fairmont, WV
Tasks:	The project included subsurface investigation and development of construction specifications and drawings for remedial work on mine subsidence affecting 125 homes on 20 acres.
Title:	WVDEP Fairmont IV
Location:	Fairmont, WV
Tasks:	The project included subsurface investigation to determine if subsidence of three homes was related to mining and subsequent development of construction specifications and drawings for remedial work on the subsidence.
Title:	WVDEP Hawkins AMD
Location:	Harrison County, WV
Tasks:	The project included subsurface investigation and development of construction specifications, drawings and topographic mapping for remedial work on acid mine drainage emanating from mine portals following a "blow-out" and causing a large-saturated area above five homes.

## ATTACHMENT A: GAI WEST VIRGINIA AML PROJECT EXPERIENCE

- Title: WVDEP Kistler Refuse and Mine Fire Extinguishment Program  
Location: Logan County, WV  
Tasks: The project included subsurface investigation and development of construction specifications and drawings for extinguishment through grout injection, and subsequent construction monitoring.
- Title: WVDEP Rebrook Street Drainage  
Location: Clarksburg, WV  
Tasks: The project included subsurface investigation and development of construction specifications and drawings for remedial work on acid mine drainage from two mine portals which was affecting a house and its garage, and subsequent construction monitoring.
- Title: WVDEP Hurricane Fork/Five-Mile Fork Burning Coal Seams  
Location: Kanawha County, WV  
Tasks: The project included subsurface investigation and development of costs which would be associated with extinguishment.
- Title: WVDEP Kingmont Complex Reclamation  
Location: Marion County, WV  
Tasks: The project included development of specifications and construction drawings for sealing four mine portals and demolishing a steel river truss and buildings associated with an abandoned deep-mine complex.
- Title: WVDEP Fairmont No. 2 Subsidence  
Location: Fairmont, WV  
Tasks: The project included report with recommendations after a subsurface investigation to determine whether or not subsidence of three homes was mining related, and subsequent development of specifications and construction drawings.
- Title: WVDEP Green's Run Highwall and Marrara Spoil Area Reclamation Projects  
Location: Preston County, WV  
Tasks: The project included subsurface investigation with test-pits and development of specifications and construction drawings for reclaiming 30 acres of strip mine with three highwalls, six refuse piles, and two access roads.
- Title: Confidential Mine AMD Project  
Location: Monongalia County, WV  
Tasks: GAI partnered with numerous state and federal conservation agencies to correct the AMD discharge problem at a mine near Morgantown, WV. The overall goal of this project was to improve the water quality in Deckers Creek to restore the fish habitat in the lower five miles of the stream. The many benefits to the natural environment for Monongalia County and the City of Morgantown included removing the staining caused by the AMD precipitate. GAI completed a Phase I Evaluation of AMD Problem Report which included bench scale testing. This report summarized the available data on the mine, mine discharge and other background data. GAI also completed a Treatment Alternatives Report, which evaluated several alternatives for the treatment of the AMD discharge, including a "no build" alternative.

# APPENDIX B



SIGNED SOLICITATION FORMS





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  
Architect/Engr

<b>Proc Folder:</b> 1523821			<b>Reason for Modification:</b>
<b>Doc Description:</b> AML - EOI Morgantown Airport Subsidence Phase II			
<b>Proc Type:</b> Central Purchase Order			
<b>Date Issued</b>	<b>Solicitation Closes</b>	<b>Solicitation No</b>	<b>Version</b>
2024-10-08	2024-10-29 13:30	CEOI 0313 DEP2500000001	1

BID RECEIVING LOCATION

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

VENDOR

**Vendor Customer Code:** 000000160372

**Vendor Name :** GAI Consultants, Inc.

**Address :** Bridgeport Office

**Street :** 107A Cambridge Place

**City :** Bridgeport

**State :** WV **Country :** United States **Zip :** 26330

**Principal Contact :** Christopher Woodland, PE

**Vendor Contact Phone:** 304.808.6680 **Extension:**

FOR INFORMATION CONTACT THE BUYER

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

Vendor  
Signature X

Kent C. Cockley  
Digitally signed by Kent C. Cockley  
DN: E=k.cockley@gaiconsultants.com,  
CN=Kent C. Cockley  
Date: 2024.10.26 07:59:08-0400

FEIN# 26-1260999

DATE October 26, 2024

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 Expression(s) of Interest for 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 the professional services for design, and construction oversight aspects as needed for the Morgantown Airport Subsidence Phase II project per the attached specifications and terms and conditions.

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>
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# **EXPRESSION OF INTEREST**

## **Morgantown Airport Subsidence Phase II**

### **TABLE OF CONTENTS:**

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- 2. Section One: General Information**
- 3. Section Two: Instructions to Vendors Submitting Bids**
- 4. Section Three: Project Specifications**
- 5. Section Four: Vendor Proposal, Evaluation, and Award**
- 6. Section Five: Terms and Conditions**
- 7. Certification and Signature Page**

### **SECTION ONE: GENERAL INFORMATION**

- 1. PURPOSE:** The Acquisitions and Contract Administration Section of the Purchasing Division (“Purchasing Division”) is soliciting Expression(s) of Interest (“EOI” or “Bids”) for West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) (“Agency”), from qualified firms to provide architectural/engineering services (“Vendors”) as defined herein.
- 2. PROJECT:** The purpose of the project for which bids are being solicited is to provide the professional services for design, and construction oversight aspects as needed for the Morgantown Airport Subsidence Phase II project:

Morgantown Airport is constructed over an Abandoned Mine Lands (AML) eligible coal mine, which is susceptible to subsidence that could result in catastrophic impacts to the airport facilities and the public. No mine maps have been located to date for the deep mine, so at a minimum, a geotechnical investigation will be required during the design process to determine coal seam thicknesses, coal pavement elevations, subsurface open and collapsed mine workings, etc.

- Drilling and grouting of mine workings to stabilize specified areas at the airport.
- Temporary batch plant location(s), access routes, etc.
- Federal and other agencies coordination, permitting, etc.
- Safety plans, scheduling, restrictions, etc., as required by the Airport and FAA.

Note that no further work beyond attending the EOI interview is asked or expected of any firm. Firms are not compensated for attending the EOI interview, regardless of the outcome.

# **EXPRESSION OF INTEREST**

Morgantown Airport Subsidence Phase II

## **SECTION TWO: INSTRUCTIONS TO VENDORS SUBMITTING BIDS**

Instructions begin on the next page.



## INSTRUCTIONS TO VENDORS SUBMITTING BIDS

**1. REVIEW DOCUMENTS THOROUGHLY:** The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.

**2. MANDATORY TERMS:** The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

**3. PREBID MEETING:** The item identified below shall apply to this Solicitation.

☒ A pre-bid meeting will not be held prior to bid opening

☐ A **MANDATORY PRE-BID** meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing.

Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

**4. VENDOR QUESTION DEADLINE:** Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are nonbinding.

Submitted emails should have the solicitation number in the subject line.

Question Submission Deadline: NA

Submit Questions to:  
2019 Washington Street, East  
Charleston, WV 25305  
Fax: (304) 558-3970  
Email:

**5. VERBAL COMMUNICATION:** Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.

**6. BID SUBMISSION:** All bids must be submitted on or before the date and time of the bid opening listed in section 7 below. Vendors can submit bids electronically through wvOASIS, in paper form delivered to the Purchasing Division at the address listed below either in person or by courier, or in facsimile form by faxing to the Purchasing Division at the number listed below. Notwithstanding the foregoing, the Purchasing Division may prohibit the submission of bids electronically through wvOASIS at its sole discretion. Such a prohibition will be contained and communicated in the wvOASIS system resulting in the Vendor's inability to submit bids through wvOASIS. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via email. Bids submitted in paper or facsimile form must contain a signature. Bids submitted in wvOASIS are deemed to be electronically signed.

Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason.

**For Request for Proposal ("RFP") Responses Only:** Submission of a response to a Request for Proposal is not permitted in wvOASIS. In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal prior to the bid opening date and time identified in Section 7 below, plus \_\_\_\_\_ convenience copies of each to the Purchasing Division at the address shown below. Additionally, the Vendor should clearly identify and segregate the cost proposal from the technical proposal in a separately sealed envelope.

**Bid Delivery Address and Fax Number:**

Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130  
Fax: 304-558-3970

A bid submitted in paper or facsimile form should contain the information listed below on the face of the submission envelope or fax cover sheet. Otherwise, the bid may be rejected by the Purchasing Division.

VENDOR NAME: GAI Consultants, Inc.  
BUYER: Josh Hager  
SOLICITATION NO.: CEOI 0313 DEP2500000001  
BID OPENING DATE: see section 7  
BID OPENING TIME: see section 7  
FAX NUMBER: 304-558-3970

**7. BID OPENING:** Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by WV OASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

Bid Opening Date and Time: 10/29/2024 @ 1:30 PM ET

Bid Opening Location: Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

**8. ADDENDUM ACKNOWLEDGEMENT:** Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

**9. BID FORMATTING:** Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.

**10. ALTERNATE MODEL OR BRAND:** Unless the box below is checked, any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.

☐ This Solicitation is based upon a standardized commodity established under W. Va. Code § 5A-3-61. Vendors are expected to bid the standardized commodity identified. Failure to bid the standardized commodity will result in your firm's bid being rejected.

**11. EXCEPTIONS AND CLARIFICATIONS:** The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

**12. COMMUNICATION LIMITATIONS:** In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.

**13. REGISTRATION:** Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee, if applicable.

**14. UNIT PRICE:** Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.

**15. PREFERENCE:** Vendor Preference may be requested in purchases of motor vehicles or construction and maintenance equipment and machinery used in highway and other infrastructure projects. Any request for preference must be submitted in writing with the bid, must specifically identify the preference requested with reference to the applicable subsection of West Virginia Code § 5A-3-37, and must include with the bid any information necessary to evaluate and confirm the applicability of the requested preference. A request form to help facilitate the request can be found at: [www.state.wv.us/admin/purchase/vrc/Venpref.pdf](http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf).



**15A. RECIPROCAL PREFERENCE:** The State of West Virginia applies a reciprocal preference to all solicitations for commodities and printing in accordance with W. Va. Code § 5A-3-37(b). In effect, non-resident vendors receiving a preference in their home states, will see that same preference granted to West Virginia resident vendors bidding against them in West Virginia. Any request for reciprocal preference must include with the bid any information necessary to evaluate and confirm the applicability of the preference. A request form to help facilitate the request can be found at: [www.state.wv.us/admin/purchase/vrc/Venpref.pdf](http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf).

**16. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES:** For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37 and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women- owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.

**17. WAIVER OF MINOR IRREGULARITIES:** The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.

**18. ELECTRONIC FILE ACCESS RESTRICTIONS:** Vendor must ensure that its submission in wvOASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.

**19. NON-RESPONSIBLE:** The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1-5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform or lacks the integrity and reliability to assure good-faith performance.”

**20. ACCEPTANCE/REJECTION:** The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.5. and § 148-1-6.4.b.”

**21. YOUR SUBMISSION IS A PUBLIC DOCUMENT:** Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

**22. WITH THE BID REQUIREMENTS:** In instances where these specifications require documentation or other information with the bid, and a vendor fails to provide it with the bid, the Director of the Purchasing Division reserves the right to request those items after bid opening and prior to contract award pursuant to the authority to waive minor irregularities in bids or specifications under W. Va. CSR § 148-1-4.6. This authority does not apply to instances where state law mandates receipt with the bid.

**23. EMAIL NOTIFICATION OF AWARD:** The Purchasing Division will attempt to provide bidders with e-mail notification of contract award when a solicitation that the bidder participated in has been awarded. For notification purposes, bidders must provide the Purchasing Division with a valid email address in the bid response. Bidders may also monitor WV OASIS or the Purchasing Division's website to determine when a contract has been awarded.

**24. ISRAEL BOYCOTT CERTIFICATION:** Vendor's act of submitting a bid in response to this solicitation shall be deemed a certification from bidder to the State that bidder is not currently engaged in, and will not for the duration of the contract, engage in a boycott of Israel. This certification is required by W. Va. Code § 5A-3-63.

# EXPRESSION OF INTEREST

## Morgantown Airport Subsidence Phase II

### SECTION THREE: PROJECT SPECIFICATIONS

- 1. Background:** Firms are to be licensed Architectural/Engineering Firms (A/E) in the State of West Virginia and either the firm or its subcontractors within a given field must have successful track record of permitting and designing reclamation projects and construction inspection (especially with respect to drilling and grouting projects), and of working with airport facilities and all related and governing agencies, and all requirements thereof. The anticipated contract will be for “full service” A/E design and construction oversight. The expectation is the successful A/E firm will be able to call upon a team of professionals for each discipline, whether internal or subcontracted, that can provide each discipline’s deliverables with a minimum of supervision. All deliverables will need to be uploaded into AMLNET (or current WVDEP-DLR-AML online record-keeping database) by the successful A/E firm for each discipline. The expectation is the successful A/E firm will be providing a schedule, tracking work to that schedule, and providing regular updates as to progress with a minimum of State oversight.

**Location:** Project is in Monongalia County, WV.

**The site area is for the most part restricted; potential vendors are not to show up at the Airport for onsite evaluation. Site visit(s) will be performed with the highest scoring Vendor during the negotiation phase of this solicitation.**

- 2. Project and Goals:** The project goals and objectives include but are not limited to those listed below. Vendors should discuss any anticipated concepts and proposed methods of approach for achieving each of the listed goals and objectives:

Aspects of all Work shall comply with Infrastructure Investment Jobs Act (IIJA), including compliance with the Davis-Bacon and Build America, Buy America (BABA), as applicable and all Federal, State, and Local laws.

Aspects of the Design Work may include, but may not be limited to: Civil, Geological, Hydrological, Survey (mapping), Process, Structural, Electrical, etc., as applicable. This encompasses all required engineering and survey (including current mapping and other related services) necessary to successfully design an engineered, permanent solution that fully addresses the issues / problems that the project presents. This also includes site and geotechnical investigations. Each design must fully remove / mitigate dangers to private individuals or the public that are currently present, not introduce new dangers, and be certified by a Registered Professional Engineer in the State of West Virginia for design and Registered Professional Surveyor in the State of West Virginia for survey for deliverables. Design Work may include but is not limited to: Federal Aviation Administration (FAA)

# EXPRESSION OF INTEREST

## Morgantown Airport Subsidence Phase II

requirements and permits, National Pollutant Discharge Elimination System (NPDES) construction stormwater General Permit registration, West Virginia Department of Highways (WVDOH) MM-109 encroachment permits, Army Corps of Engineers (USACE) consultations, Department of Health Permits (for water lines, if applicable), and city and county permits as applicable, including floodplain permits. Design Work could include but is not limited to; developing construction plans and technical specifications for all aspects to stabilizing mine workings and the overburden, drainage controls and systems, subsidence repair, temporary and permanent access or accesses for construction, storm water and erosion and sediment control, regrading and revegetation, and any remediation for all other conditions encountered on the project site(s). Obtain/maintain/release all required permits.

Aspects of the Construction Oversight Work may include but may not be limited to: Daily Inspection with documentation for the duration of the Construction and through the warranty period until final release, Engineering Oversight / Support, review, and approval of contractor-provided as-builts, and Final Engineer's Certification Report of the project.

3. **Qualifications, Experience, and Past Performance:** Vendors should provide information regarding its employees, such as staff qualifications and experience in completing similar projects; references; copies of any staff certifications or degrees applicable to this project; proposed staffing plan; descriptions of past projects completed entailing the location of the project, project manager name and contact information, type of project, and the project goals and objectives and how they were met.

The response should be presented in concise format which defines the corporation history, and the experience, qualifications, and performance data of the firm's staff as requested by the AML Consultant Qualification Questionnaire (CQQ), Attachment "A" and the AML and Related Project Experience Matrix (RPEM), Attachment "B".

AML Consultant Qualification Questionnaire (CQQ) should be completed and submitted with Vendor's submitted response to be eligible (**See Attachment "A"**).

AML and Related Project Experience Matrix (RPEM) should also be completed and submitted with Vendor's submitted response to be eligible (**See Attachment "B"**).

4. **Oral Presentations/Interviews:** The Agency will conduct individual interviews with the three vendors that are determined to be the most qualified to provide the required service. During oral presentations/interviews, vendors may not alter or add to their submissions, but only clarify information already submitted. A description of the materials and information to be presented is provided below:



# **EXPRESSION OF INTEREST**

## **Morgantown Airport Subsidence Phase II**

### **4.1. Materials and Information Required at Oral Presentation/Interviews:**

An Oral Presentation will be conducted with the firms selected as the most qualified by the WVDEP-DLR-AML Selection Committee. The Committee will schedule the interviews.

The format for the interviews will be a 30 to 45-minute PowerPoint presentation consisting, at a minimum, of the following:

- Corporate/personnel experience as it relates to the project
- Proposed project management plan
- Key personnel available for the proposed work
- Proposed subcontractors (mapping, geotechnical, inspection, etc.)
- Product quality control
- Project cost control
- Project Schedule

# EXPRESSION OF INTEREST

## Morgantown Airport Subsidence Phase II

### SECTION FOUR: VENDOR PROPOSAL, EVALUATION, & AWARD

1. **Economy of Preparation:** EOIs should be prepared simply and economically, providing a straight-forward, concise description of the firm's abilities to satisfy the requirements and goals and objectives of the EOI. Emphasis should be placed on completeness and clarity of content. The response sections should be labeled for ease of evaluation.
2. **BIDS MUST NOT CONTAIN PRICE INFORMATION:** The State shall select the best value solution according to W. Va. Code §5G-1-3. In accordance with Code requirements, no "price" or "fee" information is permitted in the Vendor's EOI response.
3. **Evaluation and Award Process:** Expressions of Interest for projects estimated to cost \$250,000 or more will be evaluated and awarded in accordance with W.Va. Code §5G-1-3. That Code section requires the following related to evaluation and award:
  - 3.1. **Selection Committee Evaluation and Negotiation:** A committee comprised of three to five representatives of the agency initiating the request shall:
    - 3.1.1. evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service.
    - 3.1.2. conduct interviews with each of the three firms selected.
    - 3.1.3. rank the three selected firms in order of preference.
    - 3.1.4. and commence scope of service and price negotiations with the highest qualified professional firm.

If negotiations are successful, the contract documents will be forwarded to the WV Purchasing Division for review and approval, and then to the WV Attorney General's office for review and approval as to form. Once approved, a formal contract will be issued to the Vendor.

Should the agency be unable to negotiate a satisfactory contract with the professional firm considered to be the most qualified at a fee determined to be fair and reasonable, the agency will then commence negotiations with the second most qualified firm, and so on, until an agreement is reached, or the solicitation is cancelled.

# EXPRESSION OF INTEREST

## Morgantown Airport Subsidence Phase II

- 3.2. Firm Evaluation Rankings:** The Agency will evaluate the firms (including any subcontractors) that have been determined most qualified to perform the desired service. The evaluation criteria are defined in the Project Specifications section and based on a 100-point total score. Points shall be assigned based upon the Vendor's response to the evaluation criteria as follows:

- Understanding of Project Scope (25) Points Possible
- Relevant Experience (25) Points Possible
- Available Resources
  - a. Current Staffing
  - b. Location of Offices (and relevant headcount)
  - c. Current and Future Workload Commitments (25) Points Possible
- Performance History (25) Points Possible

**Total** 100

- 3.3. Contractor Information Form (AVS):** Vendor must complete an AVS (Applicant Violator System) form to request an eligibility evaluation from the Office of Surface Mining Reclamation and Enforcement. This requirement applies to contractors and their sub-contractors and is found under OSMRE's regulations at 30 CFR 874.16. Vendor must sign and date it. Form must be completed within 30 days of award to be considered for award. The completion of the form will be requested by the Agency after evaluation and prior to award of the purchase order.

# **EXPRESSION OF INTEREST**

Morgantown Airport Subsidence Phase II

## **SECTION FIVE: TERMS AND CONDITIONS**

Terms and conditions begin on the next page.



## **GENERAL TERMS AND CONDITIONS:**

**1. CONTRACTUAL AGREEMENT:** Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

**2. DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.

2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.

2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.

2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.

2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.

2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.

2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

2.9. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

**3. CONTRACT TERM; RENEWAL; EXTENSION:** The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

☐ **Term Contract**

**Initial Contract Term:** The Initial Contract Term will be for a period of \_\_\_\_\_. The Initial Contract Term becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as \_\_\_\_\_), and the Initial Contract Term ends on the effective end date also shown on the first page of this Contract.

**Renewal Term:** This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to \_\_\_\_\_ successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

☐ **Alternate Renewal Term** – This contract may be renewed for \_\_\_\_\_ successive \_\_\_\_\_ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

**Delivery Order Limitations:** In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

☐ **Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within \_\_\_\_\_ days.

☐ **Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within \_\_\_\_\_ days. Upon completion of the work covered by the preceding sentence, the vendor agrees that:

☐ the contract will continue for \_\_\_\_\_ years;

☐ the contract may be renewed for \_\_\_\_\_ successive \_\_\_\_\_ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's Office (Attorney General approval is as to form only).

☐ **One-Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

☒ **Construction/Project Oversight:** This Contract becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as \_\_\_\_\_), and continues until the project for which the vendor is providing oversight is complete.

☐ **Other:** Contract Term specified in \_\_\_\_\_

**4. AUTHORITY TO PROCEED:** Vendor is authorized to begin performance of this contract on the date of encumbrance listed on the front page of the Award Document unless either the box for "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked in Section 3 above. If either "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked, Vendor must not begin work until it receives a separate notice to proceed from the State. The notice to proceed will then be incorporated into the Contract via change order to memorialize the official date that work commenced.

**5. QUANTITIES:** The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation/Award Document are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☐ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☒ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☐ **One-Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

☐ **Construction:** This Contract is for construction activity more fully defined in the specifications.

**6. EMERGENCY PURCHASES:** The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute a breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One-Time Purchase contract.

**7. REQUIRED DOCUMENTS:** All of the items checked in this section must be provided to the Purchasing Division by the Vendor as specified:

☐ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

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The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.



**8. INSURANCE:** The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether that insurance requirement is listed in this section.

Vendor must maintain:

☒ **Commercial General Liability Insurance** in at least an amount of: \$1,000,000.00 per occurrence.

☒ **Automobile Liability Insurance** in at least an amount of: \$1,000,000.00 per occurrence.

☒ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: \$1,000,000.00 per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

☐ **Commercial Crime and Third Party Fidelity Insurance** in an amount of: \_\_\_\_\_ per occurrence.

☐ **Cyber Liability Insurance** in an amount of: \_\_\_\_\_ per occurrence.

☐ **Builders Risk Insurance** in an amount equal to 100% of the amount of the Contract.

☐ **Pollution Insurance** in an amount of: \_\_\_\_\_ per occurrence.

☐ **Aircraft Liability** in an amount of: \_\_\_\_\_ per occurrence.

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**9. WORKERS' COMPENSATION INSURANCE:** Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

**10. VENUE:** All legal actions for damages brought by Vendor against the State shall be brought in the West Virginia Claims Commission. Other causes of action must be brought in the West Virginia court authorized by statute to exercise jurisdiction over it.

**11. LIQUIDATED DAMAGES:** This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

☐ \_\_\_\_\_ for \_\_\_\_\_.

☐ Liquidated Damages Contained in the Specifications.

☐ Liquidated Damages Are Not Included in this Contract.

**12. ACCEPTANCE:** Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

**13. PRICING:** The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.

**14. PAYMENT IN ARREARS:** Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software maintenance, licenses, or subscriptions may be paid annually in advance.

**15. PAYMENT METHODS:** Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

**16. TAXES:** The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

**17. ADDITIONAL FEES:** Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia, included in the Contract, or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

**18. FUNDING:** This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available. If that occurs, the State may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.

**19. CANCELLATION:** The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.

**20. TIME:** Time is of the essence regarding all matters of time and performance in this Contract.

**21. APPLICABLE LAW:** This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code, or West Virginia Code of State Rules is void and of no effect.

**22. COMPLIANCE WITH LAWS:** Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

**SUBCONTRACTOR COMPLIANCE:** Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

**23. ARBITRATION:** Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

**24. MODIFICATIONS:** This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

**25. WAIVER:** The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

**26. SUBSEQUENT FORMS:** The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

**27. ASSIGNMENT:** Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.

**28. WARRANTY:** The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

**29. STATE EMPLOYEES:** State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

**30. PRIVACY, SECURITY, AND CONFIDENTIALITY:** The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy).



**31. YOUR SUBMISSION IS A PUBLIC DOCUMENT:** Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

**32. LICENSING:** In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

**SUBCONTRACTOR COMPLIANCE:** Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

**33. ANTITRUST:** In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

**34. VENDOR NON-CONFLICT:** Neither Vendor nor its representatives are permitted to have any interest, nor shall they acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

**35. VENDOR RELATIONSHIP:** The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

**36. INDEMNIFICATION:** The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

**37. NO DEBT CERTIFICATION:** In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State. By submitting a bid, or entering into a contract with the State, Vendor is affirming that (1) for construction contracts, the Vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, neither the Vendor nor any related party owe a debt as defined above, and neither the Vendor nor any related party are in employer default as defined in the statute cited above unless the debt or employer default is permitted under the statute.

**38. CONFLICT OF INTEREST:** Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

**39. REPORTS:** Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

☒ Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

☐ Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at [purchasing.division@wv.gov](mailto:purchasing.division@wv.gov).

**40. BACKGROUND CHECK:** In accordance with W. Va. Code § 15-2D-3, the State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

**41. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS:** Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open hearth, basic oxygen, electric furnace, Bessemer or other steel making process.
- c. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
  1. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
  2. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

**42. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL:** In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a “substantial labor surplus area”, as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

**43. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE:** W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the Vendor must submit to the Agency a disclosure of interested parties prior to beginning work under this Contract. Additionally, the Vendor must submit a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-work interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.



**44. PROHIBITION AGAINST USED OR REFURBISHED:** Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

**45. VOID CONTRACT CLAUSES:** This Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

**46. ISRAEL BOYCOTT:** Bidder understands and agrees that, pursuant to W. Va. Code § 5A-3-63, it is prohibited from engaging in a boycott of Israel during the term of this contract.

**ADDITIONAL TERMS AND CONDITIONS**  
**(Architectural and Engineering Contracts Only)**

**1. PLAN AND DRAWING DISTRIBUTION:** All plans and drawings must be completed and available for distribution at least five business days prior to a scheduled pre-bid meeting for the construction or other work related to the plans and drawings.

**2. PROJECT ADDENDA REQUIREMENTS:** The Architect/Engineer and/or Agency shall be required to abide by the following schedule in issuing construction project addenda. The Architect/Engineer shall prepare any addendum materials for which it is responsible, and a list of all vendors that have obtained drawings and specifications for the project. The Architect/Engineer shall then send a copy of the addendum materials and the list of vendors to the State Agency for which the contract is issued to allow the Agency to make any necessary modifications. The addendum and list shall then be forwarded to the Purchasing Division buyer by the Agency. The Purchasing Division buyer shall send the addendum to all interested vendors and, if necessary, extend the bid opening date. Any addendum should be received by the Purchasing Division at least fourteen (14) days prior to the bid opening date.

**3. PRE-BID MEETING RESPONSIBILITIES:** The Architect/Engineer shall be available to attend any pre-bid meeting for the construction or other work resulting from the plans, drawings, or specifications prepared by the Architect/Engineer.

**4. AIA DOCUMENTS:** All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the attached AIA documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein. The terms and conditions of this document shall prevail over anything contained in the AIA Documents or the Supplementary Conditions.

**5. GREEN BUILDINGS MINIMUM ENERGY STANDARDS:** In accordance with West Virginia Code § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July 1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

**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) Jason Gandee, Senior Project Manager/Associate

(Address) 500 Lee Street East, Suite 700, Charleston, WV 25301

(Phone Number) / (Fax Number) 681.245.6484

(email address) j.gandee@gaiconsultants.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.

GAI Consultants, Inc.

(Company) Kent C. Cockley  
Digitally signed by Kent C. Cockley  
DN: E=k.cockley@gaiconsultants.com,  
CN=Kent C. Cockley  
Date: 2024.10.26 06:20:52-0400

(Signature of Authorized Representative)

Kent Cockley, PE, MS, Vice President/Business Sector Leader, Power Generation

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

412.399.5418 / 412.476.2020

(Phone Number) (Fax Number)

k.cockley@gaiconsultants.com

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM  
SOLICITATION NO.: CEOI 0313 DEP2500000001

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

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

Addendum Numbers Received:

*(Check the box next to each addendum received)*

- ☐ Addendum No. 1
- ☐ Addendum No. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5

- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ 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.

**GAI Consultants, Inc.**

Company

**Kent C. Cockley**

Digitally signed by Kent C. Cockley  
DN: E=k.cockley@gaiconsultants.com,  
CN=Kent C. Cockley  
Date: 2024.10.26 08:21:19-04'00'

Authorized Signature

October 26, 2024

Date

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



**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AML CONSULTANT QUALIFICATION QUESTIONNAIRE**

**Attachment "A"**

PROJECT NAME AML - EOI Morgantown Airport Subsidence Phase II		DATE (DAY, MONTH, YEAR) October 28, 2024		FEIN 25-1260999	
1. FIRM NAME GAI Consultants, Inc.		2. HOME OFFICE BUSINESS ADDRESS 385 E. Waterfront Drive Homestead, PA 15120		3. FORMER FIRM NAME General Analytics, Inc.	
4. HOME OFFICE TELEPHONE 412.476.2000	5. ESTABLISHED (YR) 1958	5. TYPE OWNERSHIP Individual <input type="checkbox"/> Corporation <input checked="" type="checkbox"/> Partnership <input type="checkbox"/> Joint-Venture <input type="checkbox"/>		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
6. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 107A Cambridge Place, Bridgeport, WV 26330 / 204.808.6680 / Christopher Woodland, PE / Bridgeport AML Personnel: 10 Charleston AML Personnel: 10; Pittsburgh, PA AML Personnel: 30					
7. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Anthony Morrocco, President: 412.399.5197 Gary DeJidas, CEO: 321.319.3020		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS Richard Kodera, Sr. Vice President, Power & Energy: 412.399.5192 Karl Palvisak, Sr. VP / Treasurer / Secretary: 321.319.3021			
9. PERSONNEL BY DISCIPLINE					
<u>94</u> ADMINISTRATIVE	<u>4</u> ECOLOGISTS	<u>16</u> LANDSCAPE ARCHITECTS	<u>16</u> STRUCTURAL ENGINEERS		
<u>0</u> ARCHITECTS	<u>1</u> ECONOMISTS	<u>21</u> MECHANICAL ENGINEERS	<u>6</u> SURVEYORS		
<u>19</u> BIOLOGIST	<u>38</u> ELECTRICAL ENGINEERS	<u>7</u> MINING ENGINEERS	<u>19</u> TRAFFIC ENGINEERS		
<u>56</u> CADD OPERATORS	<u>82</u> ENVIRONMENTALISTS	<u>0</u> PHOTOGRAMMETRISTS	<u>430</u> OTHER		
<u>2</u> CHEMICAL ENGINEERS	<u>1</u> ESTIMATORS	<u>15</u> PLANNERS: URBAN/REGIONAL			
<u>136</u> CIVIL ENGINEERS	<u>17</u> GEOLOGISTS	<u>0</u> SANITARY ENGINEERS			
<u>60</u> CONSTRUCTION INSPECTORS	<u>5</u> HISTORIANS	<u>0</u> SOILS ENGINEERS			
<u>0</u> DESIGNERS	<u>10</u> HYDROLOGISTS	<u>5</u> SPEC WRITERS	<u>1060</u> TOTAL PERSONNEL		
<u>0</u> DRAFTSMEN					
<p><b>TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>7</u></b>  <b>*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.</b></p>					
<p>Since 1985, GAI has completed more than 140 projects for the WVDEP-AML&amp;R. <b>GAI's proposed Project Manager, Mr. Jason Gandee</b>, out of our Charleston office, has 17 years of experience and <b>has worked on over 25 AML reclamation projects for the WVDEP</b>, where he was responsible for project management, site reconnaissance, monitoring subsurface exploration drilling, and final design drawings, technical specifications, cost estimates, and conducting pre-bid and pre-construction meetings with contractors. <b>Mr. Gandee is the Project Manager for the WVDEP's Belle (Sneed) Drainage Project</b>. <b>GAI's proposed AML/Geotechnical Project Advisor, Charles Straley, PE, PLS, MS</b>, has worked on over 95 AML projects for the WVDEP and has managed 71 of these projects. <b>GAI's proposed Federal Aviation Administration (FAA) Safety/Regulations Project Advisor, Matthew Sickles, PE</b>, has provided consulting and design services to airports across the county, including the Pittsburgh International Airport, Allegheny County Airport, Port Authority of New York/New Jersey, Indianapolis Airport Authority, Columbus Regional Airport Authority, Cleveland Hopkins International Airport, and others. Mr. Sickles understands standards and safety requirements to the extent practicable as established by the FAA for airports and airport runways.</p>					
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA					

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

[illegible]

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

YES Description and Number of Projects: GAI has completed 144 projects for the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) over the past 39 years. GAI has completed over 175 projects for Abandoned Mine Land (AML) Programs (West Virginia, Pennsylvania, Virginia, Maryland, and Office of Surface Mining). These projects include remediation design of abandoned refuse piles, landslides, abandoned portals, demolition of facilities, design of drainage control structures, mine fires, subsidence issues, highwalls, acid mine drainage, and revegetation plans.

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: GAI has completed over 250 projects that required soil analysis for revegetation plans, acid base counts, foundation stability analysis, engineering properties, etc. Most of the 140+ WVDEP-DLR-AML projects required some type of soil analysis. GAI has completed analysis both in-house and with subconsultants, depending on requirements.

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: GAI has completed over 300 projects which involve hydrology and hydraulics, including projects that were mining related. Most of the 140+ WVDEP-DLR-AML projects required hydrologic and hydraulic evaluations and design for drainage control structures, mine hydraulic level, mainstream event, water transmission, and erosion and sedimentation control. GAI is also experienced and trained in natural stream restoration and wetland mitigation.

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

YES Description and Number of Projects: GAI has produced contour mapping on nearly 200 projects completed for AML Programs. We subcontract our aerial photography if it is not already available.

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

YES Description and Number of Projects: GAI has completed over 100 projects involving domestic waterline design, of which, 44 were for the WVDEP-DLR-AML program. These projects have included: aquifer degradation evaluation and waterline design; Public Service District interaction; PSC requirements and Health Department permits, including field surveys, field inspection; and public hearings and meetings. Aquifer degradation and waterline design were the primary components of these projects.

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects: GAI has completed approximately 130 Acid Mine Drainage (AMD) evaluations and abatement designs, of which 27 were for the WVDEP-DLR-AML program. Additionally, AMD was a consideration on most of the 140+ WVDEP-DLR-AML projects that GAI has worked on, which have included grouting programs, SAP installations, and innovative abatement design.

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Gandee, Jason, G. Senior Project Manager/ Project Manager	14	17	3

Brief Explanation of Responsibilities

Mr. Gandee is GAI's proposed Project Manager for this Project. He will manage this Project from GAI's Charleston, WV Office, and will be responsible for day-to-day project activities and guidance of the GAI Project Team. His main activities will include development of Project work plans and to oversee that project activities are completed on budget and on time; reviewing work product at intermediate points and at Project completion; providing guidance and direction to Project staff; as well as assisting with engineering and design work. Mr. Gandee has 17 years of experience managing and/or working on over 25 AML or related projects for the WVDEP. He is GAI's Project Manager for the WVDEP Belle (Sneed) Drainage Project, which includes geotechnical investigations and analyses; designing access for construction and future maintenance access; hydrologic and hydraulic analyses; installation of drainage channels, underdrains, and/or other controls to safely convey water off-site; revegetation of disturbed areas; and required permitting.

EDUCATION (Degree, Year, Specialization)

BS, Civil Engineering Technology, 2007, West Virginia Institute of Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  
American Society of Civil Engineers (ASCE)

REGISTRATION (Type, Year, State)  
N/A

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Straley, Charles, F. Engineering Director/ Project Advisor (AML/Geotechnical)	36	38	38

Brief Explanation of Responsibilities

Mr. Straley is GAI's proposed Project Advisor for this Project. In addition to his 38 years of geotechnical engineering experience, has managed and/or provided design services for nearly 100 AML projects for the WVDEP. Mr. Straley will provide his expertise in the areas of geotechnical engineering, subsurface investigation, grouting, mining, soil and rock mechanics, subsidence exploration, foundation and embankment design, slope stability and landslide engineering, acid mine drainage, water feasibility studies, and material construction specifications. Additionally, Mr. Straley has experience developing pavement designs at the Washington County, Pennsylvania Airport.

EDUCATION (Degree, Year, Specialization)

MS, Geotechnical Engineering, 1988, University of Akron  
BS, Civil Engineering, 1986, University of Akron

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  
  
ACEC, WV  
Contractor's Association of WV  
National Society of Professional Engineers

REGISTRATION (Type, Year, State)  
Professional Engineer, 1993, WV  
Professional Engineer, 1995, OH  
Professional Engineer, 1996, KY  
Professional Engineer, 2007, IN  
Professional Engineer, 2022, VA  
Professional Engineer, 2023, TX, MI  
Professional Land Surveyor, 1996, 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.) Sickles, Matthew, R. Assistant Vice President/ Project Advisor (FAA Safety)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 0	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

Mr. Sickles is GAI's proposed Project Advisor for FAA-related requirements and permits. He is a civil and environmental engineer with over 35 years of engineering and project management experience in a variety of environmental and infrastructure improvement projects for aviation and municipal clients. His experience spans investigations and studies, designs, bid documents, bid services, construction administration and inspection services, resident engineering services, operation and maintenance, and permitting for a wide variety of multidisciplinary projects. He is currently the Project Director for the Allegheny County Airport Runway 10-28 Safety Area Improvements Project in West Mifflin, Pennsylvania.

EDUCATION (Degree, Year, Specialization)

Graduate Studies, Geotechnical Engineering, 1998-2002, University of Pittsburgh  
BS, 1998, Civil and Environmental Engineering, University of Pittsburgh  
BS, 1996, Engineering Physics, Miami University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Airports Council International North America - Water Quality  
Working Group

REGISTRATION (Type, Year, State)

Professional Engineer, 1995, 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.) Splitstone, Donald, E. Assistant Engineering Director/ Geotechnical Engineering Lead	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 27	YEARS OF AML RELATED DESIGN EXPERIENCE: 29	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

Mr. Splitstone is GAI's proposed Lead Geotechnical Engineer for this project. He is an Assistant Engineering Director with GAI specializing in design and construction of geotechnical projects for aviation, transportation, transit, railroad, government, and private clients. He has over 28 years of engineering experience developing geotechnical investigations, treatment schemes, details, plans, and specifications for various design projects. Mr. Splitstone has been involved in analysis, design, and report preparation for a multitude of projects that include shallow and deep (driven and drilled) foundations, various types of retaining walls and support of excavation (SOE), embankment and cut-slope stability, and flexible and rigid structural pavement. Mr. Splitstone is currently the Lead Geotechnical Engineer for the Allegheny County Airport Authority's Runway 10-28 Safety Area Improvements Project in West Mifflin, Pennsylvania. He has also managed numerous projects for the West Virginia Division of Highways (WVDOH).

EDUCATION (Degree, Year, Specialization)

BS, Civil and Environmental Engineering, 1998, University of Pittsburgh  
BS, Engineering Physics, 1996, Miami University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE)  
Deep Foundations Institute  
Geo-Institute

REGISTRATION (Type, Year, State)

Professional Engineer, 2015, WV  
Professional Engineer, 2004, PA  
Professional Engineer, 2015, OH  
Professional Engineer, 2019, FL

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Batool, Abeera Engineering Manager/ Geotechnical Engineer	2	17	0

**Brief Explanation of Responsibilities**

Dr. Batool will provide Geotechnical Engineering support for this project. She has over 17 years of experience in various aspects of geotechnical engineering, including site characterization, developing geotechnical design parameters, design of shallow and deep foundations, retaining walls, and support of excavation. Her expertise includes advanced seepage and loading rate analyses of upstream constructed tailings dams, including stability and seismic evaluations. She also has experience in design of landslide remediations, management of geotechnical information for green infrastructure projects, and providing on-site construction supervision. Dr. Batool has worked on numerous AML projects for the Pennsylvania Department of Environmental Protection, providing drilling coordination, coordinating additional geotechnical data, and preparing Geotechnical Engineering Reports. Her experience also includes working at mine refuse disposal facilities in West Virginia, where she was responsible for developing and evaluating field and laboratory testing/results and providing written reports and oral presentations of the field test results to clients and regulatory agencies.

**EDUCATION (Degree, Year, Specialization)**

PhD, Civil Engineering, 2013, Virginia Polytechnic Institute and State University  
BS, Civil Engineering, 2009, Virginia Polytechnic Institute and State University  
BS, Civil Engineering, 2007, University of Engineering and Technology

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

Deep Foundation Institute - Women in Deep Foundation Committee  
GeoProfessional Business Association - Diversity & Inclusion Committee

**REGISTRATION (Type, Year, State)**

Professional Engineer, 2017, CA

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Fisher, Shane, A. Project Engineer/ Civil Engineering Lead	3	32	0

**Brief Explanation of Responsibilities**

Mr. Fisher is GAI's proposed Lead Civil Engineer for this project. He will oversee the civil engineering aspects of this Project and will be responsible for the preparation of construction drawings, technical specifications, calculations, and cost estimates. Mr. Fisher's AML experience includes performing design and cost estimating for AML and industrial wastewater projects. He has 32 years of experience specializing in civil engineering, roadways, drainage systems, sanitary and industrial water and wastewater systems, environmental permitting, erosion and sediment control, and construction stormwater projects. Mr. Fisher was the Lead Civil Engineer for a confidential WVDEP In-Lieu-Fee (ILF) Project.

**EDUCATION (Degree, Year, Specialization)**

BS, Civil Engineering Technology, 2005, Fairmont State University

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

American Society of Civil Engineers (ASCE, WV Northern Branch - President; American Society of Highway Engineers (ASHE)

**REGISTRATION (Type, Year, State)**

Professional Engineer, 2012, WV  
Professional Engineer, 2017, VA, NC  
Professional Engineer, 2018, MD  
Professional Engineer, 2022, PA  
Professional Engineer, 2023, GA, NJ, OH, WI

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Fello, Joseph, A. Senior Engineering Manager/ Civil Engineer	0	21	21

Brief Explanation of Responsibilities

Mr. Fello specializes in civil engineering for commercial, industrial, and institutional land development projects. He is proficient in green stormwater infrastructure and post-construction stormwater management detention, conveyance, volume, and water quality design, as well as Americans with Disabilities Act compliance for new construction and construction alterations. Mr. Fello has over 21 years of experience specializing in water main design projects, and has been the design engineer for a variety of small and large diameter water main replacement projects. Additionally, he has worked on numerous airport improvement projects, including the Allegheny County Airport Runway 10-28 Safety Improvements Project in West Mifflin, Pennsylvania, and the Pittsburgh International Airport Deicing Stormwater Improvements Project in Allegheny County, Pennsylvania.

EDUCATION (Degree, Year, Specialization)

BS, Civil Engineering Technology, 2003, University of Pittsburgh

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

National Association of Industrial and Office Parks (NAIOP)

REGISTRATION (Type, Year, State)

Professional Engineer, 2023, WV, OH

Professional Engineer, 2011, 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		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Genes, Blaise Senior Engineering Manager/ Geotechnical Engineer/In-situ Field & Laboratory Testing Program Lead	30	36	0

Brief Explanation of Responsibilities

Mr. Genes is GAI's In-situ Field and Laboratory Testing Program Lead in addition to providing Geotechnical Engineering support to this project. He has over 36 years of experience implementing in-situ field and laboratory testing programs to characterize and develop undrained shear strength and consolidation properties of hydraulically-placed tailings, ash/sludge, soil and rock materials, and performing seismic hazard assessments, and static and seismic liquefaction triggering analyses of upstream-constructed coal refuse and ash/sludge impoundments. He routinely develops detailed field and laboratory testing programs, and estimates static and dynamic soil, rock, coal refuse and power plant ash waste material properties. Mr. Genes provides slope, foundation, retaining wall and ground improvement engineering designs, and prepares geotechnical reports, construction drawings and technical specifications. He has and is currently working and/or managing numerous AML projects for the PADEP, including the West Newton Refuse Embankment Stabilization Project, the Shawville North (Remedial) Project, the Walkertown Coal Refuse Exploration Drilling Project, the Hanover Reservoir Mine Fire Project, and the Bens Creek Coal Refuse Drilling Project.

EDUCATION (Degree, Year, Specialization)

BS, Civil Engineering Technology, 1988, Point Park University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

United States Society of Dams, Tailings Committee Member

REGISTRATION (Type, Year, State)

N/A

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Berkes, Mary Beth, E. Senior Engineering Manager/ Hydrology and Hydraulics (H&H) Lead	0	15	0

Brief Explanation of Responsibilities

Ms. Berkes, PE, MS, is GAI's proposed Hydrology and Hydraulics (H&H) Engineering Lead for this project. She is Senior Engineering Manager with GAI and has over 15 years of experience specializing in hydrologic and hydraulic analyses, stream restoration design, inundation studies and investigations, coastal engineering, and design of hydraulic structures. She has completed training on Natural Channel (Rosgen Levels I through IV), H&H permitting and procedures, and advanced HEC-RAS scour analyses. She is proficient in HEC-RAS, HY-8, HEC-HMS, Hydraflow Hydrographs, DamSites, PondPack, StormCAD, and AutoCAD. She was awarded the 2018 Young Professional of the Year by the Society of American Military Engineers. Ms. Berkes was the Project Manager for a confidential WVDEP ILF Project located in Barbour County, West Virginia. Deliverables included design and hydraulic modeling for over 5,700 linear feet of Level 1 Restoration or Establishment; 4,900 linear feet of Level 3 Restoration; and 2,500 linear feet of enhancement. Design drawing package of 56 sheets included plan, profile, and cross section views for 29 streams along with design tables, a site planting plan and details, and details for in-stream structures, culvert replacements, and ford crossings.

EDUCATION (Degree, Year, Specialization)

MS, Civil Engineering, 2010, Oregon State University  
BS, Civil Engineering, 2008, University of Pittsburgh

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Society of American Military Engineers (SAME)-Pittsburgh Post  
Women's Energy Network (WEN)

REGISTRATION (Type, Year, State)

Professional Engineer, 2015, WV  
Professional Engineer, 2021, IN  
Professional Engineer, 2019, KY, OH  
Professional Engineer, 2014, PA  
Professional Engineer, 2022, WI

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Webster, David, Ian Assistant Engineering Manager Erosion & Sediment Control & Stormwater Management Lead	2	11	0

Brief Explanation of Responsibilities

Mr. Webster is GAI's proposed Erosion & Sediment Control (E&SC) and Stormwater Management Lead. His 11 years of experience includes analysis, design, and review of drainage projects, including but not limited to, stormwater systems, retention and sediment ponds, roadway drainage, and natural stream design. Mr. Webster specializes in E&SC, National Pollutant Discharge Elimination System (NPDES) permitting, Federal Emergency Management Agency (FEMA) no-rise floodplain certificates, hydrologic and hydraulic design and reports, and roadway and right-of-way plans. He was responsible for hydrologic and hydraulic analysis and installation of drainage channels, underdrains, and stormwater management to safety convey water off-site for the WVDEP Belle (Sneed) Drainage Project in Kanawha County, WV.

EDUCATION (Degree, Year, Specialization)

BS, Civil Engineering, 2013, West Virginia University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE)

REGISTRATION (Type, Year, State)

Professional Engineer, 2017, WV  
Professional Engineer, 2020, NC, KY  
Professional Engineer, 2023, TN, 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.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Sollenberger, Nolan, R. Assistant Geological Specialist/ Lead Geologist	3	6	0

**Brief Explanation of Responsibilities**

Mr. Sollenberger serves as an Assistant Geological Specialist for GAI's Power Generation Group and will be the Lead Geologist for this project. He has over eight years of experience in environmental consulting specializing in groundwater sampling, soil logging and sampling, monitoring well construction and installation, sinkhole investigations, spill responses, vapor monitoring, environmental site assessments, and assisting with drilling operations. He has also authored quarterly Remedial Action Progress and Completion Reports, Site Characterization Reports, Remedial Action Plan Reports, and Act 2 Reports. He is proficient with PID meter, groundwater pumps, and various hand and power tools. Mr. Sollenberger was a Lead Geologist for the WVDEP Belle (Sneed) Drainage Project.

**EDUCATION** (Degree, Year, Specialization)  
BS, 2016, Geology, West Virginia University

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**  
N/A

**REGISTRATION** (Type, Year, State)  
N/A

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Buckley, Adam, W. Environmental Specialist/ Environmental Lead	0	16	0

**Brief Explanation of Responsibilities**

Mr. Buckley is GAI's proposed Environmental Lead for this project. He has over 16 years of experience reviewing, conducting, and preparing Jurisdictional Determinations, Pre-construction Notifications (PCN), stream and wetland delineations, environmental report writing, ArcGIS mapping, federal and state permitting, water quality monitoring, and macroinvertebrate community assessment throughout West Virginia. His training includes wetland delineation courses through the United States Army Corps of Engineers (USACE) and the Swamp School. Prior to GAI, Mr. Buckley worked as a Regulatory Specialist with USACE, Huntington District, where he provided experience in applying laws and regulations when reviewing and permitting PCNs and coordinated with the United States Fish and Wildlife Service. His experience also includes working for the WVDEP, conducting watershed assessment, including water sampling, benthic surveys, and stream flow measurements on waters impacted by acid mine drainage from AMLs. The streams were listed on the Clean Water Act's 3030(d) list of Impaired Waters and covered under Title IV of the Federal Surface Mining Control and Reclamation Act. During his experience working at the WVDEP, Mr. Buckley conducted a bank stability analysis on a local stream impacted by acid mine drainage with the Morris Creek Watershed Association and the West Virginia Conservation Agency and developed an extensive report of the findings.

**EDUCATION** (Degree, Year, Specialization)  
BS, Biology, 2008, West Virginia Wesleyan College

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**  
N/A

**REGISTRATION** (Type, Year, State)  
N/A

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.) Paparella, Vincent, J. Assistant Survey Technical Manager/ Survey Lead	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 0	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

Mr. Paparella is a Professional Surveyor (PS) in West Virginia and Professional Land Surveyor (PLS) in six states, with over 30 years of experience managing survey projects, from small boundary surveys to large oil and gas projects. His expertise includes the construction management, routing, surveying, and mapping of major water body crossings for energy and transportation clients. His project experience includes topographic surveys, boundary surveys, ALTA Surveys, Route Surveys, Utility Surveys, Control Surveys, Volumetric Surveys, and Construction Stakeout. Mr. Paparella is also experienced at providing AutoCAD Drafting (topographic mapping and subdivision plans), preparing legal descriptions, reducing and plotting survey data, and providing boundary determination and calculations.

EDUCATION (Degree, Year, Specialization)

AS, Civil Engineering, 1997, Hagerstown Community College

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

N/A

REGISTRATION (Type, Year, State)

Professional Surveyor, 2018, WV  
Professional Land Surveyor, 1999, PA  
Professional Land Surveyor, 2015, ND  
Professional Land Surveyor, 2022, VA  
Professional Land Surveyor, 2023, KY, NC  
Professional Land Surveyor, 2024, TN

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.) DePra, Daniel, J. Senior Director Engineering FAA Safety/Regulations Lead	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 0	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

Mr. DePra is a Senior Director of Engineering for GAI and will lead our Team pursuant to FAA Safety and Regulatory Guidance. He has over 31 years of diverse experience in managing large civil and environmental projects, directly managing project managers and project teams, and leading firmwide initiatives that improve operations and project delivery, maximizing performance and empowering project managers. Mr. DePra is a Board-Certified Environmental Engineer (BCEE) by the American Academy of Environmental Engineers and a Project Management Professional (PMP). He has managed projects at airports for over 20 years, developing and implementing cost-effective solutions to numerous environmental issues.

EDUCATION (Degree, Year, Specialization)

MBA, 2019, Business Administration, Point Park University  
MS, 2004, Civil Engineering, University of Pittsburgh  
BS, 1993, Mechanical Engineering, University of Pittsburgh  
BS, 1993, Chemistry, University of Pittsburgh

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Academy of Environmental Engineers, Member  
Project Management Institute, Member  
University of Pittsburgh, Civil and Environmental Engineering  
Department - Visiting Committee

REGISTRATION (Type, Year, State)

Professional Engineer, 1999, 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		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Harvey, Greg Construction Technician/ Lead Construction Technician	29	29	0

Brief Explanation of Responsibilities

Mr. Harvey has 29 years of experience as a construction manager and construction inspector for a wide variety of civil engineering projects, including providing construction support services for over 25 WVDEP AML reclamation projects. His design and construction project experience includes AML reclamation projects, including portals and refuse piles; waste characterization studies; municipal landfills; water and sanitary sewer upgrades; transportation; buildings; roadway design; drainage design; site design; permitting; property surveys; construction administration; and construction oversight.

EDUCATION (Degree, Year, Specialization)

BS, Industrial Relations, 1995, West Virginia Institute of Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

N/A

REGISTRATION (Type, Year, State)

USACE Construction Manager  
WVDOT TRET Level III Inspector  
WVDOH Aggregate Sampler  
WVDOH Site Manager  
Asphalt Field and Compaction Technician  
Soil and Aggregate Compaction Technician

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Sutton, John, T. Project Environmental Specialist/Senior Construction Support Specialist	0	33	0

Brief Explanation of Responsibilities

Mr. Sutton has 33 years of experience specializing in the management and protection of environmental resources throughout West Virginia. His responsibilities include the scheduling and management of a group of environmental inspectors involved in the field inspection of active construction and post-construction projects located within West Virginia and Ohio. He is also responsible for client coordination on upcoming project permitting and in-progress and post-construction project activities, as well as relaying compliance issues identified as part of project inspections. Other duties include continuing personal inspection of on-going projects to identify issues of environmental non-compliance as applicable under state and federal regulations and permitting. He has also served as a direct liaison between WVDEP inspectors and client representatives.

EDUCATION (Degree, Year, Specialization)

BA, Anthropology, 1991, West Virginia University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

N/A

REGISTRATION (Type, Year, State)

Confined Space Entry and Awareness Training Certified  
40-Hour Hazardous Materials Training Certified

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 Phoenix, Jonathan, D.	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 0	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

Mr. Phoenix is a GIS Specialist with over 13 years of experience developing base maps, creating spatial data, maintaining GIS databases, and creating metadata for new data. In this role, he utilizes tools such as Esri ArcGIS for Desktop and Server, including 3D Analyst and Spatial Analyst, Google Earth, and Trimble Pathfinder Office. Prior to joining GAI, he post-processed survey grade data utilizing Trimble Business Center. Such differential correction workflow processes were certified to pass certain industry standards such as the FAA DO-200A certification for meeting the Standards of Processing Aeronautical Data.

EDUCATION (Degree, Year, Specialization)

MA, Geography, 2011, Marshall University  
BA, Geography, 2010, West Virginia University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  
N/A

REGISTRATION (Type, Year, State)  
N/A

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

Brief Explanation of Responsibilities

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EDUCATION (Degree, Year, Specialization)

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MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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14. PROVIDE A LIST OF SOFTWARE/EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE USED TO COMPLETE AML DESIGN SERVICES

Design Software: AutoCAD/Civil 3D, MicroStation, Microsoft Office Suite, Sewer CAD, Water CAD, Hydrocalc Hydraulics, TR-55, Hydraulic Modeling Software, Maptech (Professional), SLOPE/W and Slide2 (Slope Stability), and GeoPack Design.

Equipment: Plotters, Digital Cameras, Digital Planimeters, Surveying Stations, GPS Units, Computers, Photocopiers, Printers, and Scanners

Cultural Resources Equipment and Software:

- 1,000 SF Laboratory, lighted by natural and artificial light, and contains storage cabinets and shelves, worktables, sinks, and computers
- 1,500+ SF Storage Facility for Long-Term Artifact Curation
- 6,000 SF Archaeological Storage Facility with Equipment Storage Areas
- Computer Equipment
- Flote-Tech Machine (for processing light and heavy fraction soil flotation samples)
- Portable Shelters and Heaters, allowing GAI archaeologists to work during the winter months
- In-House Library of approximately 10,000 volumes dealing with aspects of technical projects
- Mapping-Grade, Hand-Held Global Positioning System
- DSLR Cameras
- Smartphones
- Printers
- Mapping-Grade Handheld GPS Units
- Tablets with ArcGIS Field Maps Survey Software and Trimble Receivers
- Microsoft Office 365 Software
- Survey123 for ArcGIS Software
- AutoCAD Software

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

\*Note: This is a summary of a few of our projects located in West Virginia. GAI has hundreds of current projects ongoing.

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Belle (Sneed) Drainage Project; Town of Belle, Kanawha County, WV	WVDEP, Division of Land Restoration, Office of Abandoned Mine Lands 601 57 <sup>th</sup> Street SE Charleston, WV 25304	Performing a Site Investigation; Designing Access for Construction and Future Maintenance Access; Design of Drainage Conveyances, including Drainage Channels, Underdrains, and/or other Controls to Safely Convey Water Off Site; and Condition and Revegetation Disturbed Areas	75,055 (fee)	80%
City of Wheeling Landfill Closure Cap Design Project; Landfill Site Characterization, Leachate Management and Closure Cap Design, and Construction Monitoring; Ohio County, WV	WVDEP, Office of Environmental Remediation 2031 Pleasant Valley Road, Fairmont, WV 26554	Surveying and Mapping; Site Reconnaissance; Records Review and Research; Subsurface Exploration and Testing; Characterization Report Preparation; Meetings; Design Development; Permitting; Construction Documents; Construction Monitoring; and QA/QC Testing	\$934,080 (fee)	60%
Bridge Replacement Project; Phase 1 Design Study, Final Design, Contract Plans, and Related Documents; Braxton County, WV	Confidential Government Transportation Client West Virginia	Final Design and Contract Plans, Project Management and Coordination, Surveying, Final Hydraulics, Maintenance of Traffic, Roadway Design, Stormwater Management, Right-of-Way, and Geotechnical Engineering for the replacement of a bridge.	952,000 (fee)	95%
Bridge Project; Study, Design, and Preparation of Contract Plans and related Documents; McDowell County, WV	Confidential Government Transportation Client West Virginia	Final Design and Contract Plans, Project Management and Coordination, Geotechnical Engineering, Surveying, Preliminary Field Review, Right-of-Way Plans, QA/QC, Drainage, Permitting, Natural Resources, Structural Design for the construction of a new two-lane bridge.	\$689,155 (fee)	75%
TOTAL NUMBER OF PROJECTS: 4		TOTAL ESTIMATED CONSTRUCTION COSTS: \$2,650,290		

[illegible][illegible]

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD\*

\*Note: GAI has completed hundreds of projects within the past 5 years. This is a summary of a few of our most relevant projects.

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
<b>West Newton Refuse Embankment Stabilization Project:</b> GAI evaluated the AML site, performed geotechnical boring, developed a site stabilization and stormwater management plan that regraded the refuse pile to provide stable slopes and conveyed stormwater runoff to minimize erosion, soils amendment and AMD Remediation Plan. GAI's final design was submitted and approved for construction by the PADEP Bureau of Abandoned Mine Reclamation. West Newton, Westmoreland County, PA.	Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation 400 Market Street, 13 <sup>th</sup> Floor Harrisburg, PA 17101	\$311,000 (Fee)	2021	NO
<b>White Avenue Slip Project:</b> Reviewed geologic and mining conditions along with available historic topographic maps and aerial photos; performed site reconnaissance; performed a geotechnical subsurface exploration; conducted laboratory testing of select soil and rock samples; developed alternatives to stabilize/remediate the landslide; and developed construction drawings of preferred alternative. Morgantown, Monongalia County, WV	City of Morgantown 389 Spruce Street Morgantown, WV 26505	\$67,000 (Fee)	2021	YES
<b>Fourth Street Arch Bridge Replacement Project:</b> Performed NEPA Services, including an Environmental Assessment, Finding of No Significant Impact, Categorical Exclusion Evaluation, Replacement Alternatives, Background Research, Cultural Resources Services, and Criteria of Effects Report. Weston, Lewis County, WV	West Virginia Department of Transportation, Division of Highways State Capitol Complex, Building 5 1900 Kanawha Blvd E. Charleston, WV 25305	\$430,982.00 (Fee)	2021	NO
<b>UNT #1 of Teter Creek ILF Mitigation Project:</b> GAI prepared a Mitigation Plan following the Compensatory Mitigation for Losses of Aquatic Resources; collected baseline data; topographic and geomorphic surveys; stream restoration and enhancement; design drawings; replacement of undersized culverts; permitting; erosion & sediment control plan; and construction plans, specifications, and bid support. Barbour County, WV.	West Virginia Department of Environmental Protection, Division of Water and Waste Management 601 57 <sup>th</sup> Street, SE Charleston, WV 25304	\$330,000.00 (Design Fee) \$1,773,000 (Estimated Construction Cost)	2020	NO



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

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

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program. **Please see GAI's Expression of Interest for additional information pursuant to GAI's qualifications for working on WVDEP-DLR-AML Projects.**

20. The foregoing is a statement of facts.

Signature: Kent C. Cockley Title: Vice President

Date: October 26, 2024

Printed Name: Kent Cockley, PE, MS

Digitally signed by Kent C. Cockley  
DN: E=k.cockley@gaiconsultants.com,  
CN=Kent C. Cockley  
Date: 2024.10.26 08:22:00-0400

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**AML CONSULTANT QUALIFICATION QUESTIONNAIRE**

**Attachment "A"**

PROJECT NAME AML - EOI Morgantown Airport Subsidence Phase II		DATE (DAY, MONTH, YEAR) October 23, 2024		FEIN 13-5318940																																					
1. FIRM NAME C&S Engineers, Inc.		2. HOME OFFICE BUSINESS ADDRESS 499 Col. Eileen Collins Blvd. Syracuse, NY 13212		3. FORMER FIRM NAME																																					
3. HOME OFFICE TELEPHONE (315)455-2000	4. ESTABLISHED (YEAR) 1968	6. TYPE OWNERSHIP Corporation		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) NO																																					
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 1600 Market Street, Suite 3450; Philadelphia, PA 19103 - (215) 709-4340 - R. Nicholas McLaughlin, PE - 11 staff																																									
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Richard N. McLaughlin, PE			8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS																																						
9. PERSONNEL BY DISCIPLINE																																									
<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">96 ADMINISTRATIVE</td> <td style="width: 25%;">0 ECOLOGISTS</td> <td style="width: 25%;">1 LANDSCAPE ARCHITECTS</td> <td style="width: 25%;">25 STRUCTURAL ENGINEERS</td> </tr> <tr> <td>30 ARCHITECTS</td> <td>0 ECONOMISTS</td> <td>26 MECHANICAL ENGINEERS</td> <td><b>0 SURVEYORS</b></td> </tr> <tr> <td><b>0 BIOLOGIST</b></td> <td>23 ELECTRICAL ENGINEERS</td> <td><b>0 MINING ENGINEERS</b></td> <td>23 TRAFFIC ENGINEERS</td> </tr> <tr> <td><b>17 CADD OPERATORS</b></td> <td>9 ENVIRONMENTALISTS</td> <td>0 PHOTOGRAMMETRISTS</td> <td>24 OTHER</td> </tr> <tr> <td>1 CHEMICAL ENGINEERS</td> <td>0 ESTIMATORS</td> <td>24 PLANNERS: URBAN/REGIONAL</td> <td></td> </tr> <tr> <td><b>98 CIVIL ENGINEERS</b></td> <td><b>1 GEOLOGISTS</b></td> <td>0 SANITARY ENGINEERS</td> <td></td> </tr> <tr> <td>25 CONSTRUCTION INSPECTORS</td> <td>0 HISTORIANS</td> <td>0 SOILS ENGINEERS</td> <td></td> </tr> <tr> <td>0 DESIGNERS</td> <td>1 HYDROLOGISTS</td> <td>0 SPECIFICATION</td> <td>96 TOTAL PERSONNEL</td> </tr> <tr> <td>0 DRAFTSMEN</td> <td></td> <td>WRITERS</td> <td></td> </tr> </table>						96 ADMINISTRATIVE	0 ECOLOGISTS	1 LANDSCAPE ARCHITECTS	25 STRUCTURAL ENGINEERS	30 ARCHITECTS	0 ECONOMISTS	26 MECHANICAL ENGINEERS	<b>0 SURVEYORS</b>	<b>0 BIOLOGIST</b>	23 ELECTRICAL ENGINEERS	<b>0 MINING ENGINEERS</b>	23 TRAFFIC ENGINEERS	<b>17 CADD OPERATORS</b>	9 ENVIRONMENTALISTS	0 PHOTOGRAMMETRISTS	24 OTHER	1 CHEMICAL ENGINEERS	0 ESTIMATORS	24 PLANNERS: URBAN/REGIONAL		<b>98 CIVIL ENGINEERS</b>	<b>1 GEOLOGISTS</b>	0 SANITARY ENGINEERS		25 CONSTRUCTION INSPECTORS	0 HISTORIANS	0 SOILS ENGINEERS		0 DESIGNERS	1 HYDROLOGISTS	0 SPECIFICATION	96 TOTAL PERSONNEL	0 DRAFTSMEN		WRITERS	
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0 DRAFTSMEN		WRITERS																																							
<p><b>TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 1 with Reciprocity In Process</b></p> <p><b>*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.</b></p>																																									
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																																									

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

[illegible]

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

NO

B. Is your firm experienced in Soil Analysis?

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: C&S Engineers, Inc. has performed hydrology projects throughout the United States on our design projects, however out teammate GAI will perform this work on this contract.

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

NO

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.)

NO

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

NO



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

NAME & TITLE (Last, First, Middle Int.) McLaughlin, Richard, N.	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 0 Years	YEARS OF AML RELATED DESIGN EXPERIENCE: 0 Years	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 Years

Brief Explanation of Responsibilities

C&S Engineers involvement will be for FAA coordination. C&S has performed airfield civil design projects and coordinated with the FAA for over 55 years performing over 3,500 airport planning, design, and construction projects during this time. C&S will be responsible for FAA and airport coordination on this project. C&S will make sure FAA safety approvals and requirements are followed. Mr. McLaughlin will be the design lead for this work.

EDUCATION (Degree, Year, Specialization)

BS - Mechanical Engineering - Alfred University 2002  
MS - Mechanical Engineering - Alfred University 2008

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Association of Airport Executives - Northeast Chapter  
Board member  
Pennsylvania Aviation Association

REGISTRATION (Type, Year, State)

Professional Engineer - NY, NJ, PA, DE, MD, RI, VA,  
(Currently In process for Reciprocity - WV, CT & DC)

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.) Aljets, Aaron M.	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 0 Years	YEARS OF AML RELATED DESIGN EXPERIENCE: 0 Years	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 Years

Brief Explanation of Responsibilities

C&S Engineers involvement will be for FAA coordination. C&S has performed airfield civil design projects and coordinated with the FAA for over 55 years performing over 3,500 airport planning, design, and construction projects during this time. C&S will be responsible for FAA and airport coordination on this project. C&S will make sure FAA safety approvals and requirements are followed. Mr. Aljets will perform a quality control review of the work performed.

EDUCATION (Degree, Year, Specialization)

BS - Civil Engineering - Michigan State University 1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Ohio Aviation Association  
American Association of Airport Executives - Great Lakes Chapter

REGISTRATION (Type, Year, State)

Professional Engineer - MI, OH and IN

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

Microsoft Word, Microsoft Excel, Microsoft Project, Auto CAD, Auto CAD Civil 3D.

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
Run-Up Pad Design – Aircraft Run-Up pad and associated Taxiways for New Castle Airport	Delaware River and Bay Authority New Castle Ave. & Route 295 New Castle, DE 19720	Aviation Design - Prime	\$4,000,000.00	95%
Centralized Deicing Pad and Building for Syracuse International Airport	Syracuse Regional Airport Authority 1000 Col. Eileen Collins Blvd. Syracuse NY 13212	Aviation Design - Prime	\$40,000,000.00	5%
Runway 5-23 Rehabilitation – T. F. Green International Airport	Rhode Island Airport Corporation 2000 Post Road Warwick, RI 02886	Aviation Design - Prime	\$33,800,000.00	80%
General Aviation Apron Reconstruction – Buffalo Niagara International Airport	Niagara Frontier Transit Authority 181 Ellicott Street Buffalo, NY 14203	Aviation Design - Prime	\$17,000,000.00	90%
Runway 1-19 Rehabilitation & Lighting – Albany International Airport	Albany County Airport Authority 737 Albany Shaker Road Albany, NY 12211	Aviation Design - Prime	\$14,500,000.00	95%
Taxiway A Reconstruction	Trenton-Mercer Airport 340 Scotch Road Suite 200 Ewing, NJ 08628	Aviation Design – Prime	\$10,000,000.00	90%
Many more available upon request				
TOTAL NUMBER OF PROJECTS: Over 250 Airfield design, planning and construction project over the past 5 years			TOTAL ESTIMATED CONSTRUCTION COSTS: \$	

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

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Runway 10-28 RSA Improvements – Alleghany County Airport – Sub consultant to GAI	FAA NAVAID Design and FAA Phasing	Alleghany Airport Authority	1 st phase out to bid completion dependent on federal funding	\$100,000,000.00	\$4,000,000.00
More available upon request – sub consultant work with GAI included above					

## 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)
Runway 1-19 Rehabilitation – New Castle Airport, DE	Delaware River and Bay Authority New Castle Ave. & Route 295 New Castle, DE 19720	\$10,000,000.00	2021 – 2024	Yes
Runway 10-28 Rehabilitation – Cape May Airport, NJ	Delaware River and Bay Authority New Castle Ave. & Route 295 New Castle, DE 19720	\$5,500,000.00	2021 - 2023	Yes
Rehabilitate Taxiway D (East) – Wilkes- Barre/Scranton International Airport	Wilkes-Barre/Scranton International Airport 99 Terminal Drive 100 Avoca, PA 18641	\$2,700,000.00	2021	Yes
Rehabilitate Runway 6-24 – Ocean County Airport	County of Ocean – Department of Planning 129 Hooper Avenue Toms River, NJ 08754	\$2,300,000.00	2020	Yes
Apron Rehabilitation – Phases 1 and 2 – Ocean County Airport	County of Ocean – Department of Planning 129 Hooper Avenue Toms River, NJ 08754	\$2,400,000.00	2022 – 2023	Yes
Rehabilitate Taxilanes H & 11 and Apron C – Essex County Airport	Essex County Improvement Authority 27Wright Way Fairfield, NJ07004	\$2,100,000.00	2024	Yes
Rehabilitate Apron B – Essex County Airport	Essex County Improvement Authority 27Wright Way Fairfield, NJ07004	\$1,700,000.00	2023	Yes
Rehabilitate Taxiway A – Millville Airport	Delaware River and Bay Authority New Castle Ave. & Route 295 New Castle, DE 19720	\$4,000,000.00	2024 – 2025	Yes




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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Buffalo Niagara International Airport – Runway 5-23 Rehabilitation	Niagara Frontier Transit Authority 181 Ellicott Street Buffalo, NY 14203	\$10,000,000.00 (2 <sup>nd</sup> Phase)	2024	Yes	Didonato Engineering and Design Professionals
More available upon request					

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

C&S Engineers, Inc. will perform the FAA coordination, FAA Construction Phasing and FAA required approvals for construction.

20. The foregoing is a statement of facts.

Signature: 	Title: <u>Service Group Manager</u>	Date: <u>October 23, 2024</u>
Printed Name: <u>Richard N. McLaughlin</u>		

AML and RELATED PROJECT EXPERIENCE MATRIX																							
PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section(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/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/ Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Mapping	Charles F. Straley, PE, PLS	Jason G. Gandee	Blaise Genes	Abeera Batool, PhD, PE	Nolan Sollenberger
WVDEP Belle (Sneed) Drainage Project	C/P	EOI/Appendix A	X	X	X	X			X		X	X					X	X	M/P	M/P			P
WVDEP Mingo County PSD Feasibility Study	C/P	Appendix A	X			X						X							M/P				
WVDEP Amigo Portals Project	C/P	Appendix A	X	X	X	X					X	X				X		X	M/P				
WVDEP Larry Frederick Highwall & Refuse Project	C/P	Appendix A	X	X	X	X	X		X		X	X			X		X	X	M/P				
WVDEP Oldfield Branch (Hall) Drainage Project	C/P	Appendix A	X	X	X	X					X	X					X	X	M/P				
WVDEP Eastern Wyoming County PSD Feasibility Study	C/P	Appendix A	X			X						X							M/P				
WVDEP Raleigh County PSD Feasibility Study	C/P	Appendix A	X			X						X							M/P				
WVDEP Wheatley Branch (Lutyhy) Portals Project	C/P	Appendix A	X	X	X	X					X	X			X		X	X	M/P				
WVDEP Webster County Commission Diana Area Feasibility Study	C/P	Appendix A	X			X						X							M/P				
WVDEP Cherokee Complex Project	C/P	Appendix A	X			X	X				X	X			X	X	X	X	M/P				
WVDEP Laurel Point (Saylor Run Road Slip) Project	C/P	Appendix A	X	X	X	X					X	X			X	X	X	X	M/P				
WVDEP Reynoldsville Refuse Project	C/P	Appendix A	X	X	X	X			X		X	X			X	X	X	X	M/P				
WVDEP Earling Refuse Pile Project	C/P	Appendix A	X	X	X	X					X	X			X	X	X	X	M/P				
WVDEP Erbacon CR9 Webster County WL Feasibility Study	C/P	Appendix A	X			X						X							M/P				
WVDEP Kanawha Rambling Hills Water Study	C/P	Appendix A	X			X						X							M/P				
WVDEP Davis Creek Water Study	C/P	Appendix A	X			X						X							M/P				
WVDEP Coalburg Water Study	C/P	Appendix A	X			X						X							M/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

AML and RELATED PROJECT EXPERIENCE MATRIX																							
PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section(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/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/ Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Mapping	Charles F. Straley, PE, PLS	Jason G. Gandee	Blaise Genes	Abeera Batool, PhD, PE	Nolan Sollenberger
WVDEP Wallace 353 Water Study	C/P	Appendix A	X			X						X						M/P					
WVDEP Wallace 354 Water Study	C/P	Appendix A	X			X						X						M/P					
WVDEP Greystone Mine Drainage Project	C/P	Appendix A	X	X	X	X					X	X				X	X	M/P					
WVDEP Route 60 Drainage Project	C/P	Appendix A	X	X	X	X					X					X	X	M/P					
WVDEP Malllory Refuse Project	C/P	Appendix A	X		X	X	X				X				X		X	X	M/P				
WVDEP Lynch Run Highwall #6 Project	C/P	Appendix A	X		X	X					X	X		X	X	X	X	X	M/P				
WVDEP Duck Creek (Jenkins) Landslide Project	C/P	Appendix A	X			X					X					X	X	M/P					
WVDEP Heizer Creek Drainage Project	C/P	Appendix A	X	X	X	X					X					X	X	M/P					
WVDEP Wolfpen Landslide Project	C/P	Appendix A	X	X	X	X					X					X	X	M/P					
WVDEP Hominy Creek Project	C/P	Appendix A	X			X						X						M/P					
WVDEP Logan (Marcum) Drainage Project	C/P	Appendix A	X	X	X	X					X	X				X	X	M/P					
WVDEP Bud Alpoca Project	C/P	Appendix A				X						X						M/P					
WVDEP Nuriva Maben Project	C/P	Appendix A				X						X						M/P					
WVDEP Herndon Heights Project	C/P	Appendix A				X						X						M/P					
WVDEP Handley/Upper Creek Project	C/P	Appendix A	X	X	X	X					X	X				X	X	M/P					
WVDEP Titus Road Project	C/P	Appendix A	X			X					X	X		X		X	X	M/P					
WVDEP American Legion Project	C/P	Appendix A	X			X					X	X		X		X	X	M/P					
WVDEP Cogar Project	C/P	Appendix A		X	X	X							X					M/P					
WVDEP East Branch Phase II Project	C/P	Appendix A	X			X					X	X		X		X	X	M/P					
WVDEP West Branch Headwaters Project	C/P	Appendix A	X	X	X	X			X			X			X		X	M/P					
WVDEP Lake Milton Reclamation Project	C/P	Appendix A	X			X					X	X				X	X	M/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

AML and RELATED PROJECT EXPERIENCE MATRIX																								
PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section(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/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/ Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Mapping	Charles F. Straley, PE, PLS	Jason G. Gandee	Blaise Genes	Abeera Batool, PhD, PE	Nolan Sollenberger	
WVDEP Middleton Run Reclamation Project	C/P	Appendix A	X			X					X	X						X	M/P					
WVDEP Latrobe (Gibson) Landslide Project	C/P	Appendix A		X	X	X					X					X	X	X	M/P					
WVDEP Lodestar Energy Project	C/P	Appendix A	X	X	X	X					X		X			X	X	X	M/P					
WVDEP Ven's Run Maintenance Project	C/P	Appendix A	X			X					X						X	X	M/P					
WVDEP War Waterline Project	C/P	Appendix A										X							M/P					
WVDEP Clarks Gap Project	C/P	Appendix A				X						X							M/P					
WVDEP War (Dash) Impoundment Project	C/P	Appendix A				X											X	X	M/P					
WVDEP Whites Run Project	C/P	Appendix A	X	X	X	X	X				X	X		X		X			M/P					
WVDEP Helen Portals Project	C/P	Appendix A	X	X	X	X	X				X				X	X			M/P					
WVDEP Bearwallow Branch Project	C/P	Appendix A	X	X	X	X	X				X					X			M/P					
WVDEP Ned's Branch Impoundment Project	C/P	Appendix A	X		X	X					X	X	X			X	X		P					
WVDEP McAlpin Phase II & III Project	C/P	Appendix A	X	X	X	X	X	X		X	X	X		X	X	X	X		M/P					
WVDEP McAlpin Phase I Project	C/P	Appendix A	X	X	X	X	X				X	X		X	X	X	X		M/P					
WVDEP Community of Preston Project	C/P	Appendix A				X					X		X				X		M/P					
WVDEP Kingwood 52/6 Project	C/P	Appendix A				X					X		X				X		M/P					
WVDEP Micajah Ridge Project	C/P	Appendix A				X						X							M/P					
WVDEP Glen Rogers Project	C/P	Appendix A				X						X							M/P					
WVDEP Rt. 20/Gould Project	C/P	Appendix A				X						X							M/P					
WVDEP Elkins/Buckhannon Project	C/P	Appendix A				X						X							M/P					
WVDEP Laurel Creek Project	C/P	Appendix A		X	X	X			X		X					X	X		M/P					
WVDEP Superior Project	C/P	Appendix A								X									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

AML and RELATED PROJECT EXPERIENCE MATRIX																								
PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section(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/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/ Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Mapping	Charles F. Straley, PE, PLS	Jason G. Gandee	Blaise Genes	Abeera Batool, PhD, PE	Nolan Sollenberger	
WVDEP Wash. Heights Review	C/P	Appendix A				X						X							P					
WVDEP Gaymont Project	C/P	Appendix A				X						X							P					
WVDEP Hominy Creek Project	C/P	Appendix A				X						X							P					
WVDEP Elk Creek/Verner Project	C/P	Appendix A				X						X							P					
WVDEP Orlando Mining Project	C/P	Appendix A								X					X									
WVDEP Scotch Hill Project	C/P	Appendix A									X						X		P					
WVDEP Camp Run AMD Project	C/P	Appendix A	X	X	X	X					X	X		X	X	X	X		P					
WVDEP Mahan Project	C/P	Appendix A	X			X					X					X	X		M/P					
WVDEP Johnsons Knob Project	C/P	Appendix A	X	X	X	X	X				X	X		X	X	X	X		P					
WVDEP Carolina Project	C/P	Appendix A	X	X	X	X	X				X				X		X		P					
WVDEP Hutchinson Project	C/P	Appendix A		X					X		X						X		M/P					
WVDEP Fairmont (Grandstaff) Project	C/P	Appendix A		X					X		X						X		M/P					
WVDEP City of Summersville Project	C/P	Appendix A				X													P					
WVDEP Reynoldsville Project	C/P	Appendix A				X					X		X				X		M/P					
WVDEP Mill Creek Project	C/P	Appendix A				X					X			X			X		P					
WVDEP Majesty Project	C/P	Appendix A	X	X	X	X	X	X	X		X	X		X	X	X	X		P					
WVDEP Wash. Hts to Jeffrey Project	C/P	Appendix A										X												
WVDEP Gauley River Review Project	C/P	Appendix A				X													P					
WVDEP Heizer/Manila Review Project	C/P	Appendix A				X													M/P					
WVDEP Owings Project	C/P	Appendix A	X	X	X	X	X			X	X	X		X	X	X	X		P					
WVDEP Omega Project	C/P	Appendix A		X	X	X					X	X				X	X		P					
WVDEP Mill Creek-Isom Project	C/P	Appendix A										X												

\* List whether project experience is corporate or personnel based or both  
\*\* Use this area to provide specific sections or pages if needed for reference  
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WVDEP Weaver-Junior Project	C/P	Appendix A										X							M/P					
WVDEP Reynoldsville Phase II Project	C/P	Appendix A										X							P					
WVDEP Mainella Project	C/P	Appendix A		X						X		X					X		M/P					
WVDEP Glen Morgan Project	C/P	Appendix A		X						X		X					X		M/P					
WVDEP Harris AMD Project	C/P	Appendix A		X	X	X						X			X				P					
WVDEP Lefthand Fork Project	C/P	Appendix A	X	X	X	X	X	X				X				X	X	X	P					
WVDEP Madison Street/Fairview Project	C/P	Appendix A		X		X						X							P					
WVDEP Summerlee Project	C/P	Appendix A	X			X	X					X				X	X		M/P					
WVDEP Cow Creek Project	C/P	Appendix A		X	X	X						X					X		P					
WVDEP Godby Branch Project	C/P	Appendix A				X						X					X		P					
WVDEP New Haven Phase II Project	C/P	Appendix A										X												
WVDEP Gauley River Phase II Project	C/P	Appendix A										X												
WVDEP Heizer and Manila Ph. II Project	C/P	Appendix A										X							M/P					
WVDEP Matheny Hill Phase I Project	C/P	Appendix A										X							M/P					
WVDEP Duncan Hill No. 2 Project	C/P	Appendix A								X		X					X		M/P					
WVDEP Urso Subsidence Project	C/P	Appendix A		X						X		X					X		M/P					
WVDEP Mill Creek Phase II Project	C/P	Appendix A										X												
WVDEP Duncan Hill Subsidence Project	C/P	Appendix A		X						X		X					X		M/P					
WVDEP Cora Mine Drainage II Project	C/P	Appendix A		X	X	X						X	X			X			M/P					
WVDEP Covey Creek Mine Project	C/P	Appendix A		X					X			X					X		P					
WVDEP Vivian Project	C/P	Appendix A	X			X	X					X				X	X		P					
WVDEP Kimball Project	C/P	Appendix A	X			X	X					X				X	X		P					

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WVDEP Hampden Bridge Project	C/P	Appendix A				X					X				X							
WVDEP Bear Run Refuse Project	C/P	Appendix A	X			X	X				X	X		X		X	X					
WVDEP Beaver Creek Project	C/P	Appendix A				X					X					X						
WVDEP Charleston Landslide Project	C/P	Appendix A	X								X					X						
WVDEP Garrison Complex Project	C/P	Appendix A		X		X					X					X						
WVDEP Cassity Fork Project	C/P	Appendix A				X					X					X						
WVDEP Mulberry Fork Landslide Project	C/P	Appendix A	X								X					X						
WVDEP Beckley Subsidence Project	C/P	Appendix A		X					X		X					X						
WVDEP Courtright Highwall Project	C/P	Appendix A	X								X					X						
Monongalia County Mine AMD Treatment Project	C/P	Appendix A	X			X						X		X					M/P			
PADEP West Newton Refuse Embankment Stabilization Project	C/P	EOI		X		X			X		X		X			X				P		
PADEP Shawville North (Remedial) Project	C/P	EOI	X			X			X				X			X	X		P		P	M/P
PADEP Walkertown Coal Refuse Exploration Drilling Project	C/P	EOI	X						X							X			P		M/P	P
PADEP Hanover Reservoir Mine Fire	C/P	EOI		X		X		X				X	X			X	X				M/P	
PADEP Bens Creek Coal Refuse Drilling	C/P	EOI	X						X							X			P		M/P	M/P
69kV Substation Karst Remediation and Grouting Project - Berks County, PA	C/P	EOI							X							X	X		M/P			
WVDEP Wolfpen (Carpenter) Portals Project	P	N/A		X	X	X					X									P		
WVDEP Little Whitestick Refuse Project	P	N/A		X	X	X					X				X	X				P		

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WVDEP Crany Mine Dump Project	P	N/A	X			X				X					X	X			P				
WVDEP MacArthur Phase 1 Subsidence Project	P	N/A		X		X			X		X	X				X			P				
WVDEP MacArthur Phase 2 Subsidence Project	P	N/A		X		X			X		X	X				X			P				
WVDEP East Lynn II Project	P	N/A		X	X	X					X				X	X			P				
WVDEP Flipping Hollow Complex Project	P	N/A		X	X						X								P				
WVDEP Sundial (Hatfield) Refuse Re-Bid Project	P	N/A		X	X	X					X				X	X	X		P				
WVDEP Mill Creek Refuse Pile Project	P	N/A		X		X					X					X			P				
WVDEP Johns Branch Refuse Dam Project	P	N/A		X		X		X			X					X			P				
WVDEP Clay-Roane PSD Water Study Project	P	N/A		X								X							P				
WVDEP Burnsville PSD Water Study Project	P	N/A		X								X							P				
WVDEP Brandonville/Pisgah Water Study Project	P	N/A		X								X							P				
WVDEP Cuzzart/4-H Water Study Project	P	N/A		X								X							P				
WVDEEP Hudson/Mt. Nebo Water Study Project	P	N/A		X								X							P				
WVDEP Jessop Highwall #10 Project	P	N/A	X		X	X					X					X			P				
WVDEP Lando (Edwards) Drainage Project	P	N/A	X	X	X	X					X					X			P				
WVDEP Taylorville (Cantrell) Drainage Project	P	N/A		X	X	X					X								P				
WVDEP Borderland (Matney) Portals Project	P	N/A		X	X	X					X								P				
WVDEP Peach Ridge Complex Project	P	N/A	X	X	X	X					X				X	X	X		P				
WVDEP Measle Fork Refuse Project	P	N/A	X			X					X				X	X	X		P				

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WVDEP Georges Creek Portals Project	P	N/A		X	X	X					X					X			P				
WVDEP Putney Impoundment Project	P	N/A	X	X	X	X					X				X	X			P				
WVDEP Kopperston Refuse Emergency Project	P	N/A	X			X					X								P				
WVDEP Marmet (Wells Drive) Emergency Project	P	N/A		X	X	X					X					X			P				
WVDEP Marmet (Clark) Drainage Project	P	N/A		X	X	X					X					X			P				
WVDEP Pringle Run #2 Project	P	N/A	X	X	X	X					X				X	X			P				
WVDEP Fairmont East Mine Drainage Project	P	N/A		X		X					X								P				
WVDEP Rachel Refuse Project	P	N/A	X		X	X					X				X				P				
WVDEP Laeger Water Study	P	N/A		X								X							P				
WVDEP May Portals Project	P	N/A		X	X	X					X					X			P				

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# Office of Surface Mining Reclamation and Enforcement

## Instructions for Completing the AML Contractor Form OMB #1029-0119

**Purpose:** The Office of Surface Mining Reclamation and Enforcement Applicant/Violator System (AVS) office is required to conduct eligibility checks for businesses performing abandoned mine land (AML) reclamation work to ensure those businesses are not associated with any coal mining violations in accordance with the Surface Mining Control and Reclamation Act (SMCRA). This form is used to update the AVS database which maintains relationship information between individuals and their associated businesses. If you have any questions, please contact the AVS Office at 800-643-9748.

**Part A: General Information:** Part A should be completed by the AML Contractor. You can find an electronic fillable form on our website (<https://www.osmre.gov/programs/regulating-coal-mines/avs>).

**Part B: Obtain an Organizational Family Tree (OFT):** Part B should be completed by the AML Contractor. An Organizational Family Tree (OFT) indicates the relationships between individuals and their associated business.

**You can obtain an OFT two ways:**

1. Call the AVS Office at 800-643-9748 to request your company's OFT.
2. Go to the AVS website (<https://avss.osmre.gov>). Click "Access AVS", and then "Login as Guest". Place your cursor on the "Entity" Module and click. Type your business name (or entity number) in search box and press enter. Select your company and then click on the "Relationship" tab to display your Entity OFT information. Print the Entity OFT from AVS. Review the OFT, if you need to make updates complete Part D. Attach the OFT to your AML Contractor Form.

*If you are a new company or this is your first AML bid:* Your business is most likely **not** in the AVS. If your company does not appear in the AVS database, move on to Part C, check Box 3, and complete Part D of this form.

*If your company has worked on previous AML projects or in the coal mining industry:* Your business is most likely in the AVS, but may need to be updated. Obtain and review your OFT and then complete Part C.

**Part C: Certifying and updating information in the Applicant/Violator System (AVS).** Part C should be completed by the AML Contractor. Please check the box that best describes your situation, sign and date.

**Note: Signature date must be recent (within 30 days) to be considered.**

**Part D: OFT Information.** Part D should be completed by the AML Contractor **only** if you want to make updates to what information is in the AVS, or if your company **does not** have any information in the AVS. Include **all** fields, including the relevant begin and/or end dates for individuals, including middle name or initial for individuals if possible.

### **Answers to Part D FAQs:**

*Which employees should be included in Part D?*

Any current or separated employee of significance should be listed. Refer to the list provided at the top of Part D. For those owning less than 10% reporting the ownership is optional. Include those employees who direct, manage, or control the project. If, for example, a Professional Engineer has the power to determine how the project is conducted you should include him/her on Part D.

*What address and phone number should I use?*

Use the address and phone number where the person receives business correspondence.

*What are the begin and end dates for?*

**Begin dates** indicate when a person started in that position in your company. If an individual still works at the company you can simply fill in the begin date and leave the end date blank or write "N/A". **End dates** are used for indicating that someone no longer works in that capacity or is no longer employed at the company. **If an employee has held more than one position** or title, note the begin dates/end dates for each position.



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:	GAI Consultants, Inc.
Tax ID #:	25-1260999
Address:	107A Cambridge Place
City, State, & Zip:	Bridgeport, WV 26330
Phone Number:	204.808.6680
Email Address:	k.cockley@gaiconsultants.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](mailto: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, Kent Cockley, 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.

October 26, 2024

Date

Kent C. Cockley

Signature

Vice President

Title



U.S. Department of the Interior  
Office of Surface Mining Reclamation and Enforcement  
Applicant/Violator System

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## Entities

Previous Search

Entity Name

Search

10 per page ▼

**Entity Number:** 140978

**Last Name:** GAI Consultants Incorporated

**\* First Name:**

**Middle Name:**

**Alias:**

**Tax ID:**

**Memo:** AML CONTRACTOR

**Created:** 4/3/1996

**Updated:** 8/31/2007

**Source:** dfeheley@osmre.gov

**Entity Type:** Business

**Locked:** Y

Entity #	Entity Name	Suffix	First	Middle	Lock	Type	
140978	GAI Consultants Incorporated				Y	Business	Select

Addresses

Relationships

Applications

Permits

Comments

	Entity #	Parent Entity	Relationship	Entity #	Related Entity	First	% Own	Begin	End	Hold	Hold Source	Create	Update	Descr
<input type="checkbox"/>	140978	GAI Consultants Incorporated	President	152306	Morocco	Anthony	0.00	6/1/2017		None		3/4/2022	3/4/2022	

<input type="checkbox"/>	140978	GAI Consultants Incorporated	Chief Executive Officer	152309	Dejidas	Gary	0.00	6/1/2003		None		3/4/2022	3/4/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Chairman of the Board	152309	Dejidas	Gary	0.00	6/1/2003		None		3/4/2022	3/4/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	156448	Palvisak	Karl	0.00	7/1/2004		None		4/23/2008	4/23/2008	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Treasurer	156448	Palvisak	Karl	0.00	7/1/2004		None		7/6/2005	11/7/2006	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	158896	Nettuno	Gregory	0.00	7/1/2002		None		11/7/2006	11/7/2006	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	159534	Houston	Robert	0.00	10/20/2006		None		5/7/2007	5/7/2007	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Corporate Officer	249779	Resnick	Benjamin	0.00	8/14/2009		None		12/8/2009	12/8/2009	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Executive Vice President	264942	Gould	Stephen	0.00	6/1/2019		None		3/4/2022	3/4/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Chief Operations Officer	264942	Gould	Stephen	0.00	1/1/2019		None		3/4/2022	3/4/2022	

12345678





U.S. Department of the Interior  
Office of Surface Mining Reclamation and Enforcement  
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<input type="checkbox"/>	140978	GAI Consultants Incorporated	Senior Vice President	264943	Leadbetter	Kevin	0.00	2/1/2005		None		3/4/2022	3/4/2022	

<input type="checkbox"/>	140978	GAI Consultants Incorporated	Secretary	140983	Giarrusso	Raymond	0.00		2/19/1998	None		4/3/1996	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Shareholder	140983	Giarrusso	Raymond	0.00		2/19/1998	None		4/3/1996	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Assistant Secretary	140984	Hribar	John	0.00	6/28/1993	1/1/1999	None		12/17/2002	12/17/2002	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Shareholder	140984	Hribar	John	0.00		1/1/1999	None		4/3/1996	1/14/2002	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	140984	Hribar	John	0.00	6/28/1993	1/1/1999	None		12/17/2002	12/17/2002	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Director	140980	Donovan	Thomas	0.00		11/9/1999	None		4/3/1996	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Shareholder	140980	Donovan	Thomas	0.00		11/9/1999	None		4/3/1996	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Shareholder	140985	Niece	James	0.00		9/30/2002	None		4/3/1996	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Director	152309	Dejidas	Gary	0.00	1/2/2001	6/1/2003	None		5/17/2002	3/4/2022	

12345678







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Office of Surface Mining Reclamation and Enforcement  
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<input type="checkbox"/>	140978	GAI Consultants Incorporated	Chief Executive Officer	140981	Digioia Jr	Anthony	0.00		6/30/2003	None		4/3/1996	7/6/2005	

<input type="checkbox"/>	140978	GAI Consultants Incorporated	President	140981	Digioia Jr	Anthony	0.00	10/17/2002	6/30/2003	None		6/23/2003	7/6/2005	I
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Director	151581	Pavlik	Mark	0.00	1/2/2000	7/6/2003	None		5/17/2002	5/7/2007	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	152304	Mandel	Herbert	0.00	6/27/1993	7/7/2003	None		5/17/2002	11/7/2006	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Director	146701	Okorn	Dennis	0.00	1/2/2000	8/30/2003	None		5/17/2002	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	President	146701	Okorn	Dennis	0.00	1/1/2001	8/30/2003	None		1/14/2002	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Director	151580	Dodds	Lawrence	0.00	1/1/1998	11/3/2003	None		5/17/2002	11/7/2006	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Senior Vice President	151580	Dodds	Lawrence	0.00	1/1/1998	11/3/2003	None		5/17/2002	12/7/2006	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Senior Vice President	140982	Salver	Henry	0.00	6/30/1991	12/12/2003	None		5/17/2002	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	140982	Salver	Henry	0.00		12/12/2003	None		4/3/1996	7/15/2005	

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## Entities

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Entity Name

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**Entity Number:** 140978

**Last Name:** GAI Consultants Incorporated

**\* First Name:**

**Middle Name:**

**Alias:**

**Tax ID:**

**Memo:** AML CONTRACTOR

**Created:** 4/3/1996

**Updated:** 8/31/2007

**Source:** dfeheley@osmre.gov

**Entity Type:** Business

**Locked:** Y

Entity #	Entity Name	Suffix	First	Middle	Lock	Type	
140978	GAI Consultants Incorporated				Y	Business	Select

Addresses

Relationships

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Permits

Comments

	Entity #	Parent Entity	Relationship	Entity #	Related Entity	First	% Own	Begin	End	Hold	Hold Source	Create	Update	Des
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Shareholder	140982	Salver	Henry	0.00		12/31/2003	None		4/3/1996	7/6/2005	

<input type="checkbox"/>	140978	GAI Consultants Incorporated	Assistant Secretary	151582	Pitzer	Gerald	0.00	1/2/2000	12/31/2003	None		1/14/2002	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	151582	Pitzer	Gerald	0.00	1/2/2000	12/31/2003	None		1/14/2002	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	152308	Spence	Paul	0.00	12/29/2000	4/16/2004	None		5/17/2002	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Treasurer	151581	Pavlik	Mark	0.00	1/2/2000	6/30/2004	None		1/14/2002	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Assistant Secretary	152301	Yodnane	Precha	0.00	12/13/2000	6/30/2004	None		5/17/2002	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Shareholder	140981	Digioia Jr	Anthony	0.00		12/31/2004	None		4/3/1996	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Chairman of the Board	140981	Digioia Jr	Anthony	0.00	1/1/2001	12/31/2004	None		1/14/2002	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Chairman of the Board	140979	Gray	Richard	0.00		3/11/2005	None		4/3/1996	7/6/2005	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Senior Vice President	140979	Gray	Richard	0.00	9/1/1985	3/11/2005	None		5/17/2002	7/6/2005	

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## Entities

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Entity Name

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**Entity Number:** 140978

**Last Name:** GAI Consultants Incorporated

**\* First Name:**

**Middle Name:**

**Alias:**

**Tax ID:**

**Memo:** AML CONTRACTOR

**Created:** 4/3/1996

**Updated:** 8/31/2007

**Source:** dfeheley@osmre.gov

**Entity Type:** Business

**Locked:** Y

Entity #	Entity Name	Suffix	First	Middle	Lock	Type	
140978	GAI Consultants Incorporated				Y	Business	Select

Addresses

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Permits

Comments

	Entity #	Parent Entity	Relationship	Entity #	Related Entity	First	% Own	Begin	End	Hold	Hold Source	Create	Update
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	152305	Mccutcheon	Kirk	0.00	12/13/2000	4/15/2005	None		5/17/2002	7/6/2005



<input type="checkbox"/>	140978	GAI Consultants Incorporated	Secretary	151581	Pavlik	Mark	0.00	7/1/2004	6/30/2005	None		7/6/2005	7/15/2005
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	152302	Fiorvante	Michael	0.00	12/30/2000	2/15/2006	None		5/17/2002	11/7/2006
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	158894	Kennington	Donald	0.00	12/28/2003	5/19/2006	None		11/7/2006	5/7/2007
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	158897	Smith	Lane	0.00	12/28/2003	5/19/2006	None		11/7/2006	5/7/2007
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Executive Vice President	151580	Dodds	Lawrence	0.00	11/3/2003	1/5/2008	None		7/6/2005	12/1/2008
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Senior Vice President	156449	Sievers	J	0.00	1/30/2004	1/5/2008	None		7/6/2005	12/1/2008
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	152306	Morrocco	Anthony	0.00	12/13/2000	5/31/2008	None		5/17/2002	12/1/2008
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	158895	Nawn	John	0.00	10/10/2005	10/10/2008	None		11/7/2006	12/1/2008
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Manager	152306	Morrocco	Anthony	0.00	6/1/2008	11/8/2008	None		12/1/2008	12/1/2008

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**Entity Number:** 140978

**Last Name:** GAI Consultants Incorporated

**\* First Name:**

**Middle Name:**

**Alias:**

**Tax ID:**

**Memo:** AML CONTRACTOR

**Created:** 4/3/1996

**Updated:** 8/31/2007

**Source:** dfeheley@osmre.gov

**Entity Type:** Business

**Locked:** Y

Entity #	Entity Name	Suffix	First	Middle	Lock	Type	
140978	GAI Consultants Incorporated				Y	Business	Select

Addresses

Relationships

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Permits

Comments

	Entity #	Parent Entity	Relationship	Entity #	Related Entity	First	% Own	Begin	End	Hold	Hold Source	Create	Update	Des
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	152307	Obrien	Thomas	0.00	12/13/2000	5/24/2009	None		5/17/2002	12/8/2009	

<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	151581	Pavlik	Mark	0.00	1/2/2000	11/28/2009	None		5/17/2002	3/22/2010	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Assistant Treasurer	151581	Pavlik	Mark	0.00	5/19/2006	11/28/2009	None		5/7/2007	3/22/2010	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Secretary	151581	Pavlik	Mark	0.00	1/2/2000	11/28/2009	None		1/14/2002	3/22/2010	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Assistant Secretary	249780	Paulik	Mark	0.00	4/24/2009	11/28/2009	None		12/8/2009	3/22/2010	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	151580	Dodds	Lawrence	0.00	1/6/2008	12/31/2009	None		12/8/2009	3/22/2010	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Corporate Officer	247449	Penn	C	0.00	12/1/2007	5/25/2012	None		4/23/2008	3/1/2022	AVP
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	152301	Yodnane	Precha	0.00	12/13/2000	6/1/2012	None		5/17/2002	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	159535	Newman	F	0.00	5/19/2006	3/1/2013	None		5/7/2007	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Corporate Officer	247448	Chaney	W	0.00	12/2/2007	3/15/2013	None		4/23/2008	3/1/2022	AVP

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**Entity Number:** 140978

**Last Name:** GAI Consultants Incorporated

**\* First Name:**

**Middle Name:**

**Alias:**

**Tax ID:**

**Memo:** AML CONTRACTOR

**Created:** 4/3/1996

**Updated:** 8/31/2007

**Source:** dfeheley@osmre.gov

**Entity Type:** Business

**Locked:** Y

Entity #	Entity Name	Suffix	First	Middle	Lock	Type	
140978	GAI Consultants Incorporated				Y	Business	Select

Addresses

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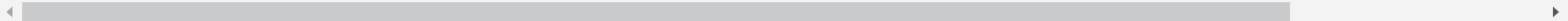
Permits

Comments

	Entity #	Parent Entity	Relationship	Entity #	Related Entity	First	% Own	Begin	End	Hold	Hold Source	Create	Update	Desc
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Corporate Officer	158901	Mollish	David	0.00	1/3/2006	11/6/2013	None		11/7/2006	3/1/2022	Assis

<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	247450	Hartman	Gerald	0.00	1/2/2007	1/31/2014	None		4/23/2008	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Corporate Officer	158899	Griffin	Linda	0.00	1/2/2005	7/3/2014	None		11/7/2006	3/1/2022	Assis
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Corporate Officer	158898	Copenhaver	Jay	0.00	1/2/2005	9/26/2014	None		11/7/2006	3/1/2022	Assis
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Corporate Officer	250149	Edwards	John	0.00	12/31/2009	12/31/2015	None		5/4/2010	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Secretary	152303	Landers	Diane	0.00	4/24/2009	1/1/2016	None		12/8/2009	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	152303	Landers	Diane	0.00	12/31/2000	1/1/2016	None		5/17/2002	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	250148	Cicero	Thomas	0.00	12/31/2009	7/20/2016	None		5/4/2010	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Corporate Officer	158900	Harrison	Grace	0.00	1/2/2005	3/3/2017	None		11/7/2006	3/1/2022	Assis
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Senior Vice President	152306	Morrocco	Anthony	0.00	6/1/2008	5/31/2017	None		12/1/2008	3/4/2022	

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**Entity Number:** 140978

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**Created:** 4/3/1996

**Updated:** 8/31/2007

**Source:** dfeheley@osmre.gov

**Entity Type:** Business

**Locked:** Y

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140978	GAI Consultants Incorporated				Y	Business	Select

Addresses

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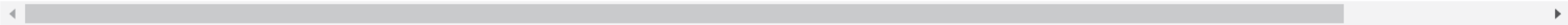
Permits

Comments

	Entity #	Parent Entity	Relationship	Entity #	Related Entity	First	% Own	Begin	End	Hold	Hold Source	Create	Update	De
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Assistant Secretary	152306	Morocco	Anthony	0.00	1/1/2004	5/31/2017	None		7/6/2005	3/4/2022	

<input type="checkbox"/>	140978	GAI Consultants Incorporated	President	152309	Dejidas	Gary	0.00	7/1/2004	6/1/2017	None		7/6/2005	3/4/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Vice President	158893	Cima	Richard	0.00	12/28/2003	1/2/2018	None		11/7/2006	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Assistant Secretary	156449	Sievers	J	0.00	1/30/2004	5/13/2019	None		7/6/2005	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Executive Vice President	156449	Sievers	J	0.00	1/6/2008	5/13/2019	None		12/1/2008	3/1/2022	
<input type="checkbox"/>	140978	GAI Consultants Incorporated	Manager	156449	Sievers	J	0.00	1/6/2008	5/13/2019	None		12/1/2008	3/1/2022	Re

140978



**Part D: OFT Information**Contractor's Business Name: GAI Consultants, Inc.

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: Karl Palvisak  
 Address: [REDACTED]  
 City, State, Zip: Orlando, Florida 32801  
 Begin Date: 2/28/1994 (UPDATED - WRONG IN SYSTEM)  
 End Date:   
 % Ownership:   
 Position/Title: Senior Vice President (UPDATED)  
 Phone Number: [REDACTED]

Name: Kevin Leadbetter  
 Address: [REDACTED]  
 City, State, Zip: Jacksonville, FL 32258  
 Begin Date: 2/1/2005  
 End Date:   
 % Ownership:   
 Position/Title: President, Transportation & Infrastructure (UPDATED)  
 Phone Number: [REDACTED]

Name: Stephen Gould  
 Address: [REDACTED]  
 City, State, Zip: Homestead, PA 15120  
 Begin Date: 1/6/1992 (UPDATED - WRONG IN SYSTEM)  
 End Date:   
 % Ownership:   
 Position/Title: Chief Administrative Officer (UPDATED)  
 Phone Number: [REDACTED]

Name: Stephen Boylan  
 Address: [REDACTED]  
 City, State, Zip: Orlando, Florida 32801  
 Begin Date: 4/16/2022  
 End Date:   
 % Ownership:   
 Position/Title: Vice President & Business Sector Leader, FL Transportation  
 Phone Number: [REDACTED]

**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 Information**Contractor's Business Name: GAI Consultants, Inc.

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- 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: David Bevilacqua  
 Address: [REDACTED]  
 City, State, Zip: Homestead, PA 15120  
 Begin Date: 7/1/2013  
 End Date: \_\_\_\_\_  
 % Ownership: \_\_\_\_\_  
 Position/Title: Sr. Vice President/Business Unit Director-Power & Energy  
 Phone Number: [REDACTED]

Name: Kathy Leo  
 Address: [REDACTED]  
 City, State, Zip: Orlando, Florida 32801  
 Begin Date: 10/16/2017  
 End Date: \_\_\_\_\_  
 % Ownership: \_\_\_\_\_  
 Position/Title: Vice President & Business Sector Leader, Community Infrastructure  
 Phone Number: [REDACTED]

Name: Robert Pfordresher  
 Address: [REDACTED]  
 City, State, Zip: Orlando, Florida 32801  
 Begin Date: 11/6/2023  
 End Date: \_\_\_\_\_  
 % Ownership: \_\_\_\_\_  
 Position/Title: Senior Vice President & Chief Financial Officer  
 Phone Number: [REDACTED]

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Begin Date: \_\_\_\_\_  
 End Date: \_\_\_\_\_  
 % Ownership: \_\_\_\_\_  
 Position/Title: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_

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107A Cambridge Place  
Bridgeport, WV 26330  
304.808.6680 | [gaiconsultants.com](http://gaiconsultants.com)