

STATEMENT OF QUALIFICATIONS

# AML - EOI PRE-QUALIFICATION FOR CONSULTANTS

RECEIVED

2025 AUG 20 AM 11:39

WV PURCHASING  
OFFICE

SUBMITTED TO



SOLICITATION NO. CEOI 0313 DEP2600000001  
AUGUST 20, 2025



SUBMITTED BY

**Michael Baker**  
INTERNATIONAL

*We Make a Difference*



STATEMENT OF QUALIFICATIONS

# AML - EOI PRE-QUALIFICATION FOR CONSULTANTS

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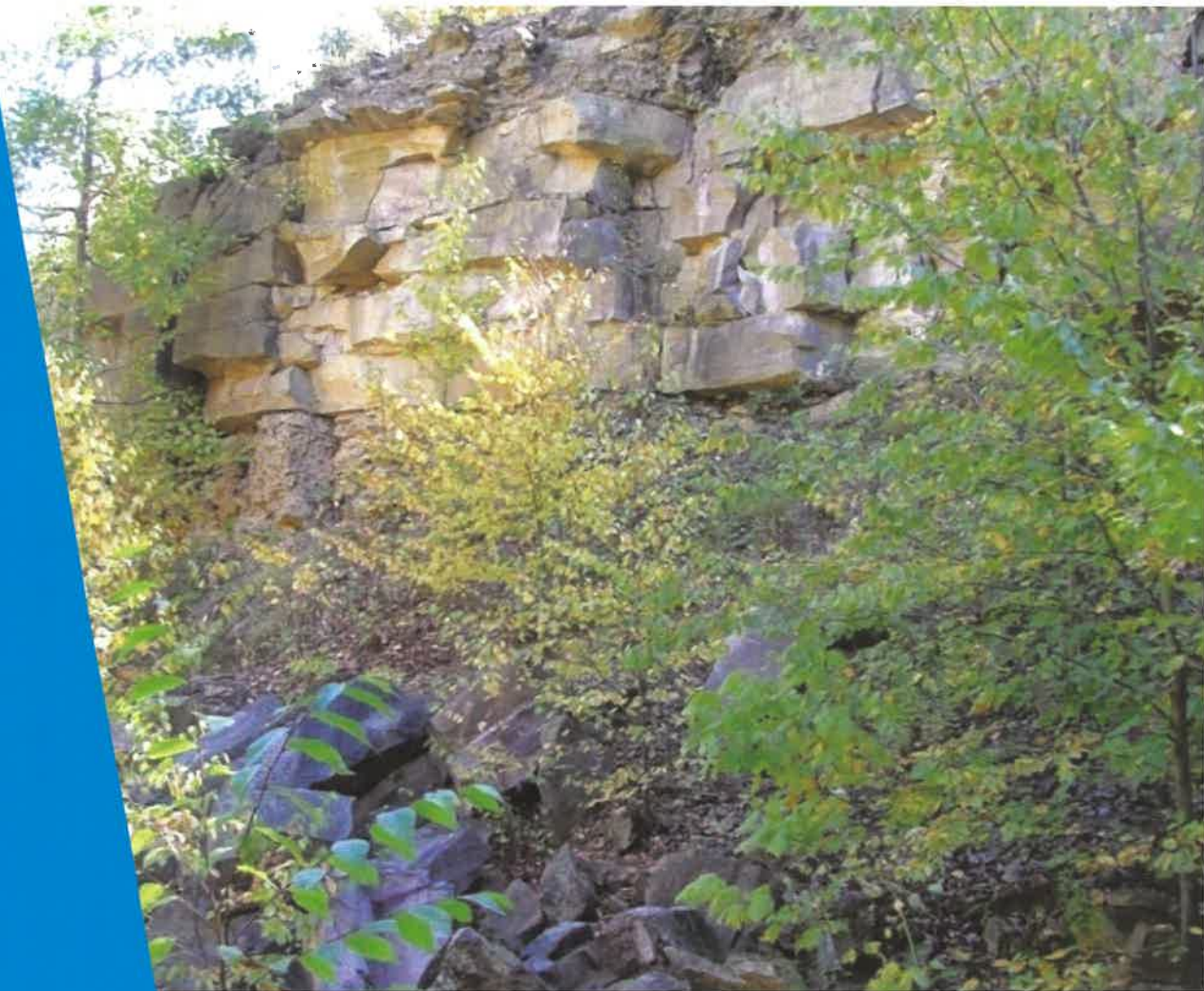
2025 AUG 20 AM 11:39

NEW YORK STATE  
DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION

SUBMITTED TO



SOLICITATION NO. CEOI 0313 DEP2600000001  
AUGUST 20, 2025



SUBMITTED BY

**Michael Baker**  
INTERNATIONAL

*We Make a Difference*

August 20, 2025

State of West Virginia  
Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Charleston, West Virginia 25305-0103

**Re: Expression of Interest (EOI)  
AML – EOI Pre-Qualifications for Consultants  
CEOI 0313 DEP2600000001**

Dear Mr. Josh Hager:

Michael Baker International, Inc. (Michael Baker) is honored to have built a 40+ year relationship with the West Virginia Department of Environmental Protection (WVDEP), helping to solve complex mining and environmental challenges. We have worked together on more than 40 projects and *received local and national recognition for our efforts*. At Michael Baker, we do not take the past for granted but rather look forward to opportunities to enhance the services we offer to the WVDEP.

To meet your design requirements and respond to the EOI, Michael Baker has assembled a team of experienced personnel who have performed on previous similar assignments for WVDEP. Our proposed team members have also provided similar services for numerous mine reclamation and related projects over the years for a variety of clients, as reflected in the enclosed documentation.

*Michael Baker's staff is experienced with all aspects of mine reclamation projects.* We have provided similar services to the WVDEP, as well as the Pennsylvania DEP, the Illinois DNR, Indiana DNR, the U.S. Office of Surface Mining, and other local, state, and federal agencies. We feel that our combination of regional experience and reclamation specific knowledge and expertise is unique to Michael Baker, and are confident we can provide efficient, timely, cost effective, and quality solutions for the WVDEP on this contract. Michael Baker is also in compliance with the Infrastructure Investment Jobs Act (IIJA).

We look forward to a favorable review of our qualifications and the opportunity to personally present our proposed project approach.

Sincerely,  
**MICHAEL BAKER INTERNATIONAL, INC.**

William D. Neider, PE  
AML Program Manager  
724-495-4225 | [wneider@mbakerintl.com](mailto:wneider@mbakerintl.com)



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

State of West Virginia  
Centralized Expression of Interest

Proc Folder: 1717189  
Doc Description: AML - EOI Pre-Qualification for Consultants  
Reason for Modification:

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2025-08-01	2025-08-20 13:30	CEOI 0313 DEP2600000001	1

ID RECEIVING LOCATION

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

ENDOR

Vendor Customer Code: 000000160331  
Vendor Name : Michael Baker International, Inc.  
Address : 100  
Street : Airside Drive  
City : Moon Township  
State : Pennsylvania Country : United States Zip : 15108  
Principal Contact : William D. Neider, PE  
Vendor Contact Phone: 724-495-4225 Extension:

FOR INFORMATION CONTACT THE BUYER

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

Vendor  
Signature X

FEIN# 25-1228638

DATE August 20, 2025

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



**ADDITIONAL INFORMATION**

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

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

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

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

Comm Code	Manufacturer	Specification	Model #
81100000			

**Extended Description:**  
EOI Engineering Design Services

**SCHEDULE OF EVENTS**

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

State of West Virginia  
Centralized Expression of Interest

Proc Folder: 1717189

Doc Description: AML - EOI Pre-Qualification for Consultants

Reason for Modification:

Addendum #1 issued to publish agency responses to vendor submitted questions.

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2025-08-13	2025-08-20 13:30	CEOI 0313 DEP2600000001	2

ADD RECEIVING LOCATION

ADD CLERK

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

ENDOR

Vendor Customer Code: 000000160331

Vendor Name : Michael Baker International, Inc.

Address : 100

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City : Moon Township

State : Pennsylvania Country : United States Zip : 15108

Principal Contact : William D. Neider, PE

Vendor Contact Phone: 724-495-4225 Extension:

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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 #
91100000			

**Extended Description:**  
EOI Engineering Design Services

**SCHEDULE OF EVENTS**

Line	Event	Event Date
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	Document Phase	Document Description	Page 3
DEP2600000001	Final	AML - EOI Pre-Qualification for Consultants	

### **ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions



**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) William D. Neider, PE, AML Program Manager  
(Address) 100 Airside Drive, Moon Township, PA 15108  
(Phone Number) / (Fax Number) 724-495-4225 / 412-375-3980  
(email address) wneider@mbakerintl.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.

Michael Baker International, Inc.

(Company) Will D. Neider

(Signature of Authorized Representative) \_\_\_\_\_

William D. Neider, PE, AML Program Manager August 20 2025

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

724-495-4225 / 412-375-3980

(Phone Number) (Fax Number)

wneider@mbakerintl.com

(Email Address) \_\_\_\_\_

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: CEOI 0313 DEP2600000001

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.

Michael Baker International, Inc.

*Will D. O.*

Authorized Signature

August 20, 2025

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 Pre-Qualification for Consultants

DATE (DAY, MONTH, YEAR)

August 20, 2025

FEIN

25-1228638

1. FIRM NAME

Michael Baker International, Inc.

2. HOME OFFICE BUSINESS ADDRESS

100 Airside Drive | Moon Township, Pennsylvania 15108

3. FORMER FIRM NAME

Michael Baker Jr., Inc.

4. HOME OFFICE TELEPHONE

412-269-6300

5. ESTABLISHED (YEAR)

1940

6. TYPE OWNERSHIP

Corporation

6a. WV REGISTERED DBE

No

7. PRIMARY AML DESIGN OFFICE: ADDRESS / TELEPHONE / PERSON IN CHARGE / NO. AML DESIGN PERSONNEL EACH OFFICE

Michael Baker International | 100 Airside Drive, Moon Township, PA 15108 | 724-495-4225 | William Neider, PE | 33  
Michael Baker International | 400 Washington Street East, Suite 301, Charleston, WV 25301 | Russell (Rusty) Hall, PE, PS | 12

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM

William Neider, PE, AML Program Manager, Director of Land Development | 724-495-4225

8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS

Steven Savich, PE, Practice Executive, Land Dev & Infrastructure | 412-269-6467

9. PERSONNEL BY DISCIPLINE

221 ADMINISTRATIVE  
17 ARCHITECTS  
2 BIOLOGISTS  
52 CADD OPERATORS/DESIGNERS  
1 CHEMICAL ENGINEERS  
67 CIVIL ENGINEERS  
83 CONSTRUCTION INSPECTORS / Mgrs.  
0 DESIGNERS  
0 DRAFTSMEN

1 ECOLOGISTS  
0 ECONOMISTS  
8 ELECTRICAL ENGINEERS  
18 ENVIRONMENTALISTS  
8 ESTIMATORS  
9 GEOLOGISTS  
8 HISTORIANS  
15 HYDROLOGISTS

4 LANDSCAPE ARCHITECTS  
9 MECHANICAL ENGINEERS  
5 MINING ENGINEERS  
1 PHOTOGRAMMETRISTS  
34 PLANNERS: URBAN/REGIONAL  
8 SANITARY ENGINEERS  
10 SOILS ENGINEERS  
4 SPECIFICATION WRITERS

25 STRUCTURAL ENGINEERS  
10 SURVEYORS  
21 TRAFFIC ENGINEERS  
203 OTHER

844 TOTAL PERSONNEL  
(Moon Township, PA and Charleston, WV Offices)

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 31

\* RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE?

N/A

# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment A

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

NAME AND ADDRESS: NGE Consulting 650 MacCorkle Avenue West St. Albans, WV 25177	SPECIALTY: Drilling, Geotechnical Exploration, and Monitoring	WORKED WITH BEFORE  Yes
NAME AND ADDRESS: Bio-Chem Testing, Inc. 5 Weatheridge Drive Hurricane, WV 25526	SPECIALTY: Water Testing	WORKED WITH BEFORE  Yes
NAME AND ADDRESS: Sturm Environmental Services Brushy Fork Road Bridgeport, WV 26330	SPECIALTY: Soil Testing	WORKED WITH BEFORE  Yes

## 12. RELEVANT EXPERIENCE

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

YES Description and Number of Projects:

Michael Baker has been assisting state and federal agencies with abandoned mine land (AML) restoration and acid mine drainage (AMD) remediation since 1977. Michael Baker's experience began with Operation Scarlift and now includes well over 200 AML/AMD remediation projects ranging from strip pit and highwall regrading subsidence control, mine sealing, reclamation of mine refuse piles, drainage improvements, revegetation, stream relocation, restoration of streams and wetlands, natural streambed design, landslide correction, and replacement of water supplies affected by abandoned mine lands to abatement of AMD problems. These services are accomplished by providing a "one-stop-shop" of professionals including engineers, geologists, surveyors, and environmental scientists to address essentially any issue that may be encountered on an AML/AMD project. These professionals combine diverse experiences in:

Mining  
Geotechnical  
Geology  
Hydraulics & Hydrology  
Groundwater

Water Treatment  
Water Line Design & Supply  
Grading  
Earthwork Balance  
Highwall Elimination

Stormwater Management  
E&S Control  
Sustainable Design  
Hazardous Waste Remediation  
Material Handling Plans

Surveying  
Mapping  
Field Reconnaissance  
Project Management  
Quality Control

Michael Baker has been assisting the West Virginia Department of Environmental Protection with Abandoned Mine Lands Remediation/Mine Reclamation Engineering Design services ever since WVDEP initiated its AML Reclamation Program in 1983. In addition to WVDEP, we have also assisted PADEP with AML reclamation and AMD remediation designs. The "AML and related Project Experience Matrix" table provided at the end of this Consultant Qualification Questionnaire (CQQ) shows our experience of AML related projects for different state agencies, and for private clients.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment A

12. RELEVANT EXPERIENCE

B. Is your firm experienced in Soil Analysis?

YES

Description and Number of Projects:

Michael Baker has conducted in-house soil analysis for over 60 years. We take pride in our work that starts with a geologic literature review to identify and review available references that characterize the site soils and other factors influencing the development and condition of the soils. The task is followed by a geotechnical reconnaissance that includes a site view by a Michael Baker geologist or geotechnical engineer to characterize the site soil conditions. Lastly and as appropriate, a subsurface investigation is conducted to collect and identify site soils and assign appropriate engineering descriptions that, in turn, are utilized for soil analysis.

In designing AML reclamation projects, generally three types of soil analysis are needed. These analyses may include a) geotechnical analysis/soil classification, b) soil analysis for revegetation potential (pH, Acid Base Accounting, Nutrients) and c) soil analysis for hazardous materials. Michael Baker is involved in selecting and collecting the soil samples and analyzing the results of laboratory testing as required for design. A subcontractor performs laboratory testing. Of the 30 most recent AML projects, Michael Baker was involved in soil analysis for 23 projects. Michael Baker has also prepared reprocessing potential evaluations of coal refuse sites (10 projects), which required evaluation of mine refuse based on laboratory test results. Refuse testing for these projects included refuse float/sink and proximate analysis, with results evaluated by Michael Baker to determine BTU content and reprocessing potential.

In addition to evaluating coal refuse for reprocessing, Michael Baker has experience in the design of coal refuse facilities through our work in supporting active mining. Michael Baker has conducted the geotechnical analysis related to slope stability and liner/cover soils permeability, as well as the analysis to support the staging required to construct the refuse area. Our experience includes coarse refuse piles, fine refuse (slurry) impoundments, and combined refuse areas. Michael Baker is currently involved with the final permitting of a refuse facility for which we have conducted all the geotechnical, civil, and hydraulic analysis for an approximate 300-acre refuse facility.

C. Is your firm experienced in Hydrology and Hydraulics?

YES Description and Number of Projects:

Michael Baker's hydrology and hydraulic staff for AML remediation design are experts in the application of hydraulic models that include HEC-1, HEC-2, HEC-RAS, HY8, TR20, TR55, FLOWMASTER, HYDRAFLOW, KYPIPE 2, CYBERNET, SEDCAD 4, UNET, and DAMBRK. Michael Baker applies this experience to services such as stormwater management; culvert analysis; hydrologic and hydraulic studies; storm sewer design; floodplain modeling; channel design; watershed planning; energy dissipation; and waterline extension and distribution.

Expertise in hydrology and hydraulics is essential in any AML reclamation/remediation design. Of the 30 most recent AML projects, 28 projects needed hydrology/hydraulics expertise of the AML/AMD design group, and 100% of this work was conducted in-house.

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

YES Description and Number of Projects:

Since 1983, Michael Baker has been designing AML/AMD remediation projects for WVDEP. For all the AML projects to date, WVDEP provided Michael Baker with contour maps developed from aerial photography of the project site. Michael Baker's responsibility was to verify the topographic map by check field surveying.

Michael Baker has a survey and photogrammetric department with a staff of 96. Michael Baker routinely performs aerial photography and contour mapping for federal and several state agencies, as well as for private clients. This includes mapping for special reclamation projects for WVDEP. Michael Baker's Survey and Photogrammetric Department has been a part of the core business since the company was founded in 1940 and uses the latest technology and software for all projects. Fixed, mobile, and aerial LiDAR equipment are "state-of-the-art" tools that Michael Baker can offer to add efficiencies to the field mapping process and enhance quality of the deliverables. Michael Baker is a national leader in the development and application of aerial LiDAR.



# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment A

## 12. RELEVANT EXPERIENCE

*During the last five years, Michael Baker has completed more than 50 mapping projects. Some examples are listed as follows:*

- **Professional Mapping and Design Services at the Bond Forfeited Permits of the Maurice Jennings Coal Company S-61-83 and S-53-78** | WVDEP (Photogrammetric Mapping, Surveying Services, Bathymetric Surveying, and 4 Band Imagery).
- **Professional Mapping and Design Services at the Bond Forfeited Permits of the Masteller Coal Company S-125-82 and S-10-85-78** | WVDEP (Photogrammetric Mapping, Surveying Services, Bathymetric Surveying, and 4 Band Imagery).
- **Professional Mapping and Design Services at the Bond Forfeited Permits of the F&M Coal Company S-1044-87 and S-57-84** | WVDEP (Photogrammetric Mapping, Surveying Services, Bathymetric Surveying, and 4 Band Imagery).
- **Updating Boundary/Site Improvements and Utility Survey - 23 LPOEs, North and South U.S. Borders** | US-VISIT (Photogrammetric Mapping and Surveying Services)
- **Rio Grande Valley Border Fence Boundary Surveys, Cameron and Hidalgo Counties, TX** | U.S. Army Corps of Engineers, Fort Worth District (Metes and Bounds Surveys and Legal Deed Descriptions)
- **Land Ports of Entry (LPOEs) Aerial Mapping Refresh, North and South U.S. Borders** | Department of Homeland Security, US-VISIT (Mapping)
- **Sewer Infrastructure Location/Verification, Allegheny County, PA** | 3 Rivers Wet Weather, Inc. (GPS or Conventional Survey Data by Others)
- **Open-End Contract for Surveying and Photogrammetric Mapping Services, Statewide, Pennsylvania** | Pennsylvania Department of Transportation (Through a series of nine open-end contracts, Michael Baker has been providing surveying and mapping services to PennDOT continuously since 1986)
- **Indefinite Delivery Contract A/E for Multidiscipline & Related Services for the Department of Homeland Security and Other Civil/Military Projects** | U.S. Army Corps of Engineers, Fort Worth District (Surveying and Mapping)
- **Border Fence Project - PF225, Various Locations in TX, AZ, NM, CA** | U.S. Army Corps of Engineers, Fort Worth District. (Aerial Photography, Analytical Aerotriangulation, Stereo Mapping Compilation, Digital Orthophotography, Horizontal and Vertical Control Surveys, Geodetic Surveys)
- **Land Ports of Entry (LPOEs) Aerial Mapping Refresh, North and South U.S. Borders** | Department of Homeland Security, US-VISIT (Aerial Photography Stereo Mapping Compilation/Topographic Mapping, Horizontal and Vertical Control Surveys, Geodetic Surveys)
- **Aerial Photography, Contour Mapping, and Field Surveys** are at the core of Michael Baker's business and expertise.

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:

Michael Baker, to date, has designed eight (8) domestic waterlines for WVDEP and countless others for clients in West Virginia, Pennsylvania, Ohio, and elsewhere. In general, for each of these projects, Michael Baker performed field surveying of proposed routes, subsurface investigation for storage tank site foundations, water distribution system hydraulic modeling and analyses, pipeline design, storage tank sizing, sizing and designing booster pumping station, and electric and telemetric system. For the McDowell County Public Water Supply System, Michael Baker also designed a water treatment and filtration plant. Construction plans, specifications, cost estimate and bid schedules were prepared for each project. Michael Baker has performed numerous waterline extension feasibility studies to determine if the pre-law mining had impacted area aquifers from which local residents obtained drinking water. The studies also involved evaluation of mining activities in the project area with regard to date and time of mining, and the effect of mining on the local aquifers and groundwater quality based on hydrogeological data, resident interview, water sampling and testing, and historic background water quality information. To date, Michael Baker has performed more than 16 water line feasibility studies.

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

YES Description and Number of Projects:

Michael Baker's design experience includes both active and passive treatment systems, which is based on the characterization of the AMD site as well as the flows and chemistry of the AMD. Michael Baker provides AMD sampling to determine chemical parameters as well as the flow measurements covering high- and low-flow periods that are most important in developing AMD abatement systems. To date, Michael Baker has evaluated and designed 17 AMD abatement systems, four of which are passive treatment systems while the remaining 13 are active treatment facilities that have been constructed and are currently in service.



**12. RELEVANT EXPERIENCE**

*A few examples are listed as follows:*

- **Professional Mapping and Design Services at the Bond Forfeited Permits of the Maurice Jennings Coal Company S-61-83 and S-53-78** | West Virginia Department of Environmental Protection, Office of Special Reclamation, Michael Baker designed seep collectors, conveyance pipes, pump stations, force mains, and limestone lined conveyance channels to transfer AMD to a high density lime slurry treatment system consisting of a surge pond, equalization pond, clarification ponds and a terminal aerobic wetland.
- **Professional Mapping and Design Services at the Bond Forfeited Permits of the Masteller Coal Company S-125-82 and S-10-85-78** | West Virginia Department of Environmental Protection, Office of Special Reclamation, Michael Baker designed seep collectors, conveyance pipes, and limestone lined conveyance channels to transfer AMD to a treatment system consisting of ponds for aeration, clarification, and sludge retention, a solar powered caustic soda feed pumps, and wholly passive treatment systems that do not include and water wheel lime feeders.
- **Professional Mapping and Design Services at the Bond Forfeited Permits of the F&M Coal Company S-1044-87 and S-57-84** | West Virginia Department of Environmental Protection, Office of Special Reclamation, Michael Baker designed seep collectors, conveyance pipes, pump stations, force mains, and limestone lined conveyance channels to transfer AMD to a high density lime slurry treatment system consisting of solar powered caustic soda feed pumps, surge ponds, equalization ponds, clarification ponds, and a terminal aerobic wetland.
- **Kempton Refuse and Acid Mine Drainage/Abandoned Mine Lands, Tucker County, West Virginia** | West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands, Michael Baker designed conveyance pipes and limestone lined conveyance channels to transfer AMD to a treatment system consisting of an equalization pond, successive alkalinity producing system (SAPS pond), and aerobic wetland. The project was constructed in 2009.
- **Lancashire Acid Mine Drainage Treatment Plant Design, Permitting, and Construction Phase Services, Ebensburg, PA** | Pennsylvania Department of Environmental Protection, Michael Baker directed a multi-disciplinary team of engineers in the design and permitting of an 11 MGD acid mine drainage treatment plant; and subsequently provided construction phase services through commissioning. The treatment plant was successfully commissioned in 2011.
- **Condition Assessment and Operational Audit - Dumans Mine Water Treatment Plant, Barr Township, PA** | Pennsylvania Department of Environmental Protection, Michael Baker directed activities of a multi-disciplinary engineering team investigating avenues to reduce acid mine water treatment costs and improve operations at the pumping station, treatment plant, and sludge lagoons (9.4 MGD). Work involved review of records; numerous field measurements, bench-scale treatability studies; consultation with the electric company, cost estimating; and preparation of a report summarizing findings and recommendations. The team was charged with finding avenues to reduce the annual operation and maintenance cost of this facility materially while maintaining compliance with applicable effluent limitations.

**Additionally, Michael Baker has designed ten AMD remediation projects for the WVDEP alone that included open limestone channel (OLC), anaerobic and aerobic wetlands and settling ponds, limestone sand dumping in the stream, and alkaline leach bed/anoxic limestone drains. Other Michael Baker AMD abatement designs have been designed for USACE's Baltimore and Nashville Districts, as well as the Pennsylvania Department of Environmental Protection.**

G. Is your firm experienced in Construction Oversight?

**YES** Description and Number of Projects:

**Michael Baker provides innovative and cost-effective solutions to meet every modern construction project need. By partnering with our clients through all phases of construction, beginning with predesign all the way through close-out, we are able to meet aggressive schedules safely and on budget. We provide qualified construction managers, inspectors, constructability reviewers, schedulers and estimators dedicated to adding value and driving efficiency from small projects to multi-billion-dollar construction programs. As technologies evolve, we deliver creative ideas and advanced techniques to maintain and deliver even the most complex construction projects. We utilize e-Construction to provide electronic construction administration, management and collaboration software and devices to strengthen workflow, increase transparency, improve safety, enhance quality, and save time and money. We also use 4D BIM to maintain construction schedules and minimize conflicts and delays, which assists in the management and administration of complex construction projects with multiple prime contractors.**

**Appalachian Corridor H Construction Services** | West Virginia Department of Transportation, Division of Highways, Michael Baker provided full-time construction inspection, materials testing and survey on this 6-project contract along WV 55. The project involved constructing 7.8 miles of new 4-lane highway and 5 bridges that improved the flow of traffic, increased safety, and provided improved access to the region. Work on the project included grading, drainage, pavement, new bridge construction, extensive maintenance of traffic plans, lighting, sign structures, as well as pavement marking.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment A

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

Michael Baker can support this project with a variety and depth of technical resources as needed to deliver this project successfully. The organizational chart depicted on the following page identifies our core team that Michael Baker will dedicate to our WVDEP AML work. This team will be led by Mr. William Neider, serving as Michael Baker's AML Program Manager. Bill is a registered West Virginia Professional Engineer, is the current Director of Land Development in the Infrastructure practice in the Moon Township, Pennsylvania office, and has more than 16 years of AML management, design, and construction oversight experience throughout his career.

The balance of our committed team includes personnel with the type of capabilities required for a typical AML project, including a senior field investigator to help assess the site and understand the mining conditions, a geologist to conduct subsurface investigations, designers for grading and earthwork balance, a professional civil engineers for stormwater/erosion & sedimentation control, and engineers-in-training to assist with the design, plans and specifications, environmental scientists for field investigations and NEPA compliance, and inspectors for construction oversight.

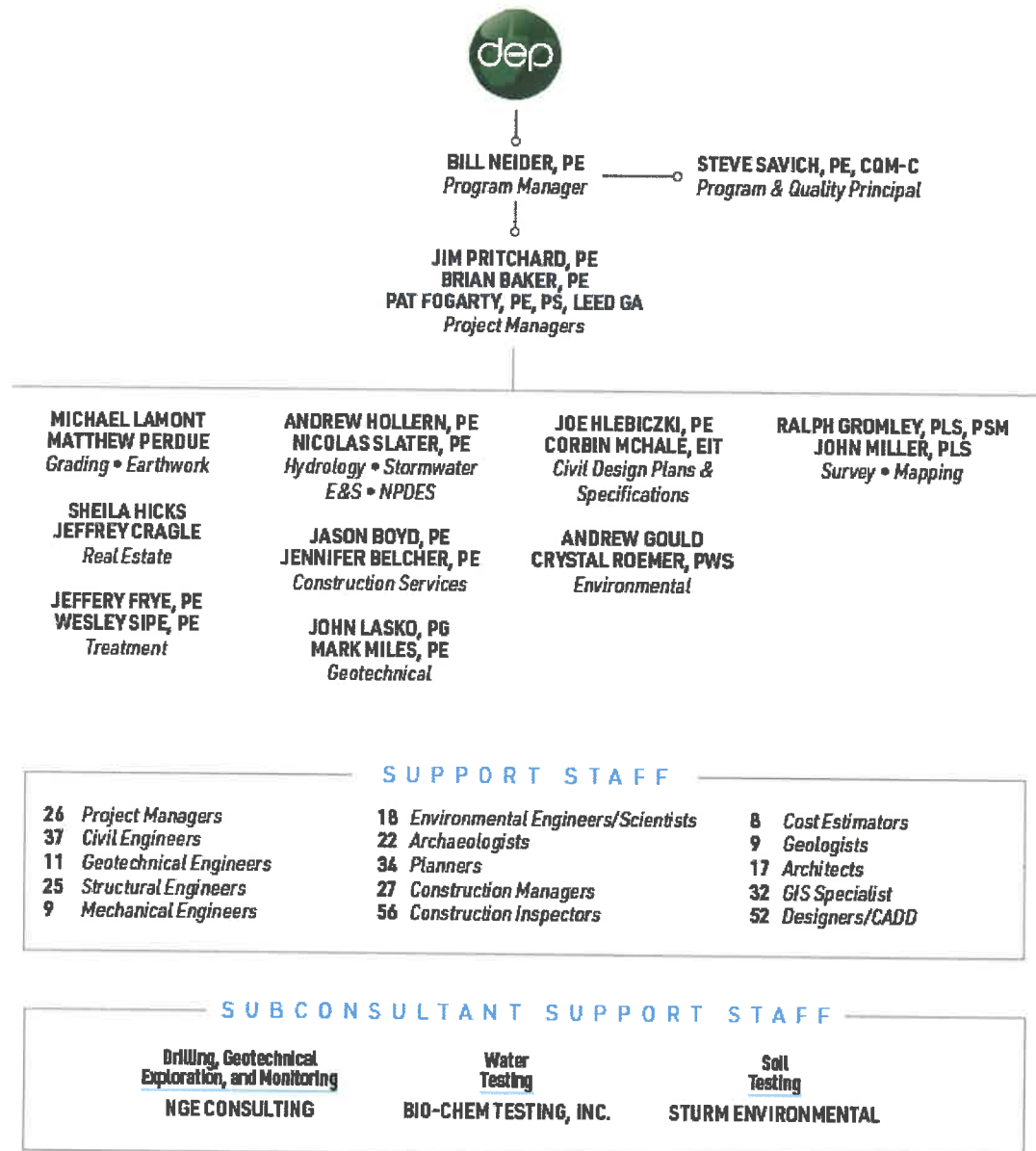
Other technical disciplines are available to assess items like surface water quality, hazardous materials (past AMD treatment chemicals), cover soils, refuse stability, site access, bridges, etc.

This team will work together closely for design efficiency and can handle multiple concurrent projects, tapping other Michael Baker technical resources, as needed, to ensure project success.

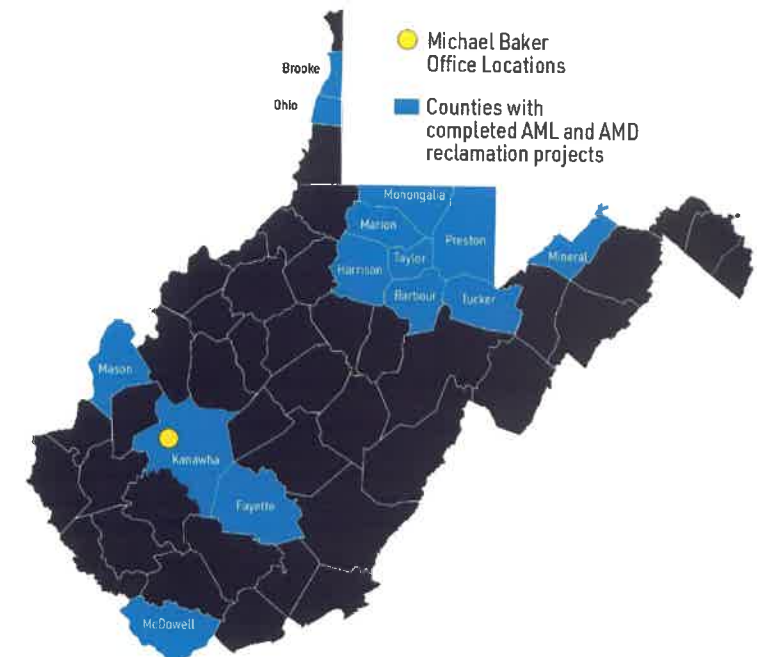
# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment A

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



Michael Baker has maintained a strong presence in West Virginia for more than 75 years, with its Charleston office established in 1957. Originally a four-person team, it grew to 36 designers and a large field crew within 15 months. Today, the office comprises more than 75 professionals, making it one of the longest-serving A/E firms in the state.





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**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 Init.) <b>Neider, William, D., PE Program Manager</b>	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: <b>16</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>28</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>20</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

As the AML Program Manager, Bill will oversee all aspects of the design, construction document preparation, and permitting for the AML program. He has worked in various areas of the civil engineering practice with his primary area of expertise being mining permitting and reclamation projects, oil and gas permitting, land development, local transportation projects, and municipal services. He has managed, lead, and designed projects for commercial development, military/federal, residential subdivisions, industrial, and educational facilities. In addition to land development experience, Bill has designed and directed several mining facilities infrastructure permitting and reclamation projects including refuse impoundments, coarse refuse piles, erosion and sedimentation control plans, and site reclamation. He also performed municipal engineering designs that included water distribution extensions, sewer modeling/design, drainage studies, and flood abatement designs. In all areas of his experience, he has been involved in every aspect of the design and construction document preparation, as well as management of design teams and project management. Bill has also been involved in construction oversight, including coordinating the review of project submittals, answering requests for information, and resolving construction related issues to ensure proper conformance to the design intent.

**Mountain View Portals Mine Reclamation, Preston County, West Virginia.** *West Virginia Division of Environmental Protection.* Project Manager. Responsibilities include project manager duties, quality control/quality assurance reviews of the project, and project design. Also responsible for construction cost estimate, stormwater pollution prevention plan, technical specifications, and NPDES permitting. The purpose of the project was to remediate subsidence areas, reestablish mine captured stream, provide drainage conveyances, install mine seals and bat gate mine seals, and perform refuse reclamation and revegetation of disturbed areas. Michael Baker prepared construction plans, specifications, stormwater pollution prevention plan services, and check survey.

**Ebenezer Run Highwall #9, Brooke County, West Virginia.** *West Virginia Division of Environmental Protection.* Project Manager. Responsibilities include project manager duties, quality control/quality assurance reviews of the project, and project design. Also responsible for construction cost estimate, stormwater pollution prevention plan, technical specifications, and NPDES permitting. The project consists of reclamation of two sites with approximately 3,660 linear feet of an abandoned strip mine highwall ranging in height from 30 to 40 feet and areas of mine spoil. Michael Baker prepared construction plans, specifications, stormwater pollution prevention plan services, and check survey.

**Waitman Barbe Highwall #1, Monongalia County, West Virginia.** *West Virginia Division of Environmental Protection.* Project Manager. Responsibilities include project manager duties, quality control/quality assurance reviews of the project, and design of channels and channel linings at the toe of the backfilled highwall. Also responsible for construction cost estimate, stormwater pollution prevention plan, and technical specifications. The project consists of reclamation of approximately 4,600 linear feet of an abandoned strip mine highwall ranging in height from 30 to 45 feet. This includes areas of mine spoil, three areas of exposed coal refuse, an illegal dumpsite containing non-hazardous construction debris and a suspected 11 mine openings. Michael Baker prepared construction plans, specifications, and a stormwater pollution prevention plan service.

**Collier Sportsman's Club Highwalls, Brooke County, West Virginia.** *West Virginia Division of Environmental Protection.* Project Manager. Responsibilities include project manager duties, quality control/quality assurance reviews, and design of channels and channel linings at the toe of the backfilled highwall. Also responsible for construction cost estimate, stormwater pollution prevention plan, and technical specifications. Involved with proposed gas line crossing with resolution and coordination between the gas line company and the WVDEP. The project consists of reclamation of an abandoned strip mine highwall and includes mine spoil, review of water quality data, design of wet and buried mine seals with bat gates at suspected mine entries, removal of non-hazardous trash and waste from the site, and revegetation of all disturbed areas.

**Professional Mapping and Design Services at the Bond Forfeited Permits of the Masteller Coal Company S-10-85 & S-125-82, Mineral County, West Virginia.** *West Virginia Division of Environmental Protection.* Project Manager. Responsibilities include project manager duties, quality control/quality assurance reviews of the project, and project design. Also responsible for construction cost estimate, stormwater pollution prevention plan, and technical specifications. The project consisted of mapping, reclamation, and treatment for previously reclaimed highwalls, treatment ponds, and several acid mine drainage (AMD) seeps at the site of an abandoned strip mine.

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

B.S.A.S., 2001, Civil Engineering Technology

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

Society of American Military Engineers (SAME)

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

Professional Engineer, 2013, WV | Professional Engineer, 2007, PA | Plus Multiple Other States

# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

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## 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 Init.) Savich, Steven M., PE, CQM-C Program & Quality Principal	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 8	YEARS OF AML RELATED DESIGN EXPERIENCE: 30	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 28

### BRIEF EXPLANATION OF RESPONSIBILITIES

As the AML Program Principal and Practice Executive of the Land Development & Infrastructure practice, Steve is committed to client satisfaction, proactive coordination, and communication with WVDEP. Based on the long-running relationship between WVDEP and Michael Baker, Steve conveys this approach through Michael Baker's AML Team to ensure all project needs and requirements are met.

**Crabtree Creek AMD Restoration Project, Westmoreland County, Pennsylvania.** *PA Department of Environmental Protection.* QA/QC. Responsible for QA/QC of the project. Michael Baker is providing permitting, survey, geotechnical, and design services for the Crabtree Creek AMD Restoration Project in Westmoreland County, Pennsylvania. Work includes the design of the collection system of the mine pool AMD discharge and the design of approximately 18,300 feet of pipeline for gravity conveyance of the AMD discharge from the collection point to the passive treatment system site.

**Mountain View Portals Mine Reclamation, Preston County, West Virginia.** *West Virginia Department of Environmental Protection.* QA/QC. Responsible for QA/QC of the project. Michael Baker provided engineering services for the reclamation of the Mountain View Portals abandoned coal mine site. Michael Baker's services included site investigation; field survey; subsurface investigation; water quality and soil sampling and analysis; conceptual, preliminary, and final design; stream restoration; permitting; environmental investigations; bidding-phase support; and construction monitoring.

**Service Center Replacement Design and Construction Management, McKeesport, Pennsylvania.** *Duquesne Light Company.* Technical Manager. Served as the civil engineering lead for the project. Coordinated all civil engineering efforts on the project, provided technical oversight of staff, and provided quality control and project compliance reviews. Michael Baker served as architect/engineer of record and owner's representative for all phases of work in connection with design and construction management for a 27,000-square-foot service center to be used for equipment servicing, truck servicing and repairs, and other vehicle deployment needs. The site is an "improved brownfield site, ready for development." Michael Baker prepared complete and comprehensive design documents and supported all site requirements, including agency permitting, due diligence, and other administrative services, to secure the site location. Michael Baker also provided procurement services, negotiation support, bid support, and construction management and inspection.

**Addison Terrace Redevelopment Master Planning and Engineering Services, Pittsburgh, Pennsylvania.** *Housing Authority of the City of Pittsburgh.* Project Manager. Participated in the Master Planning process with third party Architecture and Landscape design teams. Responsible for all design and permitting documentation as well as coordination with all relevant agencies. The resulting plan and cost estimate will be used as the guidance for final design of the resulting development. As part of a multidisciplinary consulting team, Baker provided planning, civil engineering, and construction phase services for the Addison Terrace housing complex into a new, mixed-income, mixed-use community. Michael Baker's services included master planning, civil engineering for site design and utilities, construction-phase services, community outreach, and stakeholder coordination.

**Garfield Commons Redevelopment, Pittsburgh, Pennsylvania.** *Urban Redevelopment Authority of Pittsburgh.* Project Manager. Provided technical oversight of the design team preparing the plan and specification documents. He was responsible for all design and permitting documentation as well as coordination with all relevant agencies. Michael Baker provided engineering services for the redevelopment of the Garfield Heights public housing development to Garfield Commons, a mixed-income residential neighborhood. Michael Baker's services included planning, site design, utility coordination and design, grading and drainage design, the preparation of erosion and sediment control plans, the design of sidewalks and parking facilities, landscape architecture, and construction management and construction inspection. Public Improvements for Public Housing in the City of Pittsburgh. LaQuatra Bonci Associates. Project Manager. Managed the design of public infrastructure for the redevelopment of portions of the Larimer neighborhood. The work included new sewers, waterlines and public streets and sidewalks. Freeport Mine - PH I - Preparation of 6 Design Build RFP Packages and 1 Site Design - Bid Build Bid Package. Freeport Mining. Technical Lead. Provided technical oversight of the design team preparing the surface facilities plan and specification documents. He was responsible for design and permitting documentation as well as coordination with all relevant agencies.

### EDUCATION (Degree, Year, Specialization)

M.S., 2003, Civil Engineering, Youngstown State University | B.S., 1995, Civil Engineering, Youngstown State University

### MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Society of American Military Engineers (SAME)  
Urban Land Institute (ULI)

### REGISTRATION (Type, Year, State)

Professional Engineer, Pennsylvania, 2005, PE072310 | Professional Engineer, Ohio, 2000, PE 65002 | Professional Engineer, New Jersey, 2017, 24GE05388300 | Professional Engineer, Virginia, 2006, 0402042205 | Construction Quality Management Certification, 2020, LRP04210016 | Construction Quality Management for Contractors, 2020 | OSHA 40-Hour HAZWOPER Certification



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NAME & TITLE (Last, First, Middle Init.)	YEARS OF EXPERIENCE		
<b>Savich, Steven M., PE, CQM-C</b> <b>Program &amp; Quality Principal</b>	YEARS OF AML DESIGN EXPERIENCE: <b>8</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>30</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>28</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

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**Service Center Replacement Design and Construction Management, McKeesport, Pennsylvania.** *Duquesne Light Company.* Technical Manager. Served as the civil engineering lead for the project. Coordinated all civil engineering efforts on the project, provided technical oversight of staff, and provided quality control and project compliance reviews. Michael Baker served as architect/engineer of record and owner's representative for all phases of work in connection with design and construction management for a 27,000-square-foot service center to be used for equipment servicing, truck servicing and repairs, and other vehicle deployment needs. The site is an "improved brownfield site, ready for development." Michael Baker prepared complete and comprehensive design documents and supported all site requirements, including agency permitting, due diligence, and other administrative services, to secure the site location. Michael Baker also provided procurement services, negotiation support, bid support, and construction management and inspection.

**Addison Terrace Redevelopment Master Planning and Engineering Services, Pittsburgh, Pennsylvania.** *Housing Authority of the City of Pittsburgh.* Project Manager. Participated in the Master Planning process with third party Architecture and Landscape design teams. Responsible for all design and permitting documentation as well as coordination with all relevant agencies. The resulting plan and cost estimate will be used as the guidance for final design of the resulting development. As part of a multidisciplinary consulting team, Baker provided planning, civil engineering, and construction phase services for the Addison Terrace housing complex into a new, mixed-income, mixed-use community. Michael Baker's services included master planning, civil engineering for site design and utilities, construction-phase services, community outreach, and stakeholder coordination.

**Garfield Commons Redevelopment, Pittsburgh, Pennsylvania.** *Urban Redevelopment Authority of Pittsburgh.* Project Manager. Provided technical oversight of the design team preparing the plan and specification documents. He was responsible for all design and permitting documentation as well as coordination with all relevant agencies. Michael Baker provided engineering services for the redevelopment of the Garfield Heights public housing development to Garfield Commons, a mixed-income residential neighborhood. Michael Baker's services included planning, site design, utility coordination and design, grading and drainage design, the preparation of erosion and sediment control plans, the design of sidewalks and parking facilities, landscape architecture, and construction management and construction inspection. Public Improvements for Public Housing in the City of Pittsburgh. LaQuatra Bonci Associates. Project Manager. Managed the design of public infrastructure for the redevelopment of portions of the Larimer neighborhood. The work included new sewers, waterlines and public streets and sidewalks. Freeport Mine - PH I - Preparation of 6 Design Build RFP Packages and 1 Site Design -Bid Build Bid Package. Freeport Mining. Technical Lead. Provided technical oversight of the design team preparing the surface facilities plan and specification documents. He was responsible for design and permitting documentation as well as coordination with all relevant agencies.

EDUCATION (Degree, Year, Specialization)	REGISTRATION (Type, Year, State)
M.S., 2003, Civil Engineering, Youngstown State University   B.S., 1995, Civil Engineering, Youngstown State University	Professional Engineer, Pennsylvania, 2005, PE072310   Professional Engineer, Ohio, 2000, PE 65002   Professional Engineer, New Jersey, 2017, 24GE05388300   Professional Engineer, Virginia, 2006, 0402042205   Construction Quality Management Certification, 2020, LRP04210016   Construction Quality Management for Contractors, 2020   OSHA 40-Hour HAZWOPER Certification
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	
Society of American Military Engineers (SAME) Urban Land Institute (ULI)	

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<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Pritchard, James O., PE</b> <b>Project Manager</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>2</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>36</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>5</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Jim has a broad range of technical and managerial experience in commercial site design, stormwater management, storm drainage design, potable water system analysis and design, erosion and sedimentation control, grading and roadway design, culvert analyses, computerized hydrologic and hydraulic studies, and municipal representation. He serves as the Civil Department Manager in the Pittsburgh, Pennsylvania office and is responsible for engineering projects in the region.

**Sarah Furnace Refuse Abandoned Mine Reclamation, Madison Township, Pennsylvania.** *Pennsylvania Department of Environmental Protection.* Senior Engineer. Responsibilities include preliminary and final site design, drainage, grading, erosion and sedimentation control, specifications, etc., as well as coordination of the approval process through the Pennsylvania Bureau of Abandoned Mine Reclamation. Michael Baker is creating an internal project management plan, a project specific quality management plan, health and safety plan, along with preliminary and final design, and construction procurement services for the Sarah Furnace Refuse project in Madison Township, Pennsylvania. The project consists of five pre-act abandoned mine land features including two priority 2 dangerous highwalls, one priority 2 dangerous pile embankment, and associated spoil areas.

**Cresson Treatment Plant AMD, Pennsylvania.** *Pennsylvania Department of Environmental Protection.* Assistant Project Manager. Responsibilities include coordinating all aspects of the design with the Project Manager, subcontractors, and the DEP. The Cresson Treatment Plant Vertical Turbine Pumps project is for the comprehensive design, permitting, construction support services, and specialized services for the Pennsylvania Bureau of Abandoned Mine Reclamation to replace existing submersible vertical turbine pumps with new vertical line shaft turbine extraction well pumps. The pumps currently exist to draw water from the Argyle/Stone Bridge Mine Pool, convey it into the Tunnel Coaling Mine Complex, then to the Gallitzin Shaft Mine Pool, and lastly to the Cresson AMD Treatment Plant, where it is treated and released to Clearfield Creek. Since the current pumps are situated on land acquired by the National Park Service, which is part of the Allegheny Portage Railroad Historic Site, it is desired to install quieter submersible vertical turbine pumps as to not disturb the Historic Site.

**Beulah Road (Lucia Drive), Pennsylvania.** *Pennsylvania Department of Environmental Protection.* Project Manager. Responsibilities include management of the overall project and coordination with the various stakeholders, preliminary and final site design, drainage, grading, erosion and sedimentation control, and specifications. Michael Baker is providing design and construction phase services for the reclamation of one pre-act abandoned mine land feature (AMLF - dangerous slide condition). This AMLF is a direct result of underground coal mining by the New York and Cleveland Gas and Coal Company in the Oak Hill Mine No. 3 before 1936. The slide condition is resulting from mine drainage discharging and saturating a hillside behind multiple homes on Lucia Drive. The saturated ground and discharging water pose a risk of structural damage to the foundation of homes and garages from a slide, mold growth, and other health concerns. Reclamation work consists of the installation of about 1,100 linear feet of drainage pipe (situated below house foundation elevations) in the backyards of approximately 18 affected property owners and connecting it to the existing public stormwater system.

**AML Site 147 Meridian Road, Indiana.** *Indiana Department of Natural Resources.* Senior Engineer. Responsibilities include oversight of grading, hydrology and hydraulics of the waterways and ponds, and the overall design of the site. Michael Baker provided design services to reclaim approximately 120 acres of abandoned surface coal mine cuts and spoil material. There is one (1) Dangerous Highwall (DH) totaling approximately 500 linear feet. The DH will be backfilled and regraded to reduce the ground slopes to a maximum slope of four horizontal to one vertical (4H:1V). A water impoundment at the base of the DH will be filled, and two new replacement ponds created at the low spots of the project area. The area will be regraded to produce a natural topographic surface and replace any wetland resources identified by DNR. Stormwater will be collected and conveyed by central drainage channels to the proposed ponds and then to natural drainage features. Geomorphic reclamation concepts will be applied to the final grading to mimic native topography, with numerous small watershed sub-basins to reduce overland flow and shorten runoff flow paths.

<b>EDUCATION</b> (Degree, Year, Specialization) M.B.A., 1997, Business Administration, Robert Morris University   B.S., 1987, Civil Engineering, The Pennsylvania State University	<b>REGISTRATION</b> (Type, Year, State) Professional Engineer, Pennsylvania, 1992, PE042613E
<b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> N/A	



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## 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 Init.)

Baker, Brian P., PE  
Project Manager

YEARS OF AML DESIGN EXPERIENCE:

7

YEARS OF EXPERIENCE

YEARS OF AML RELATED DESIGN EXPERIENCE:

19

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

11

### BRIEF EXPLANATION OF RESPONSIBILITIES

Brian has worked in the site civil group as an engineering associate and professional civil engineer since the fall of 2009. He has worked on several housing development projects in the Pittsburgh area where he assisted in the grading, drainage, erosion and sedimentation control, and stormwater management features of the site. He has worked on federal facility projects, designing erosion and sedimentation control plans, post-construction stormwater management plans, and stormwater pollution prevention plans for various Department of Defense facilities. He has also helped obtain various permits from the EPA and several different state departments of environmental protection. Brian has experience working as the municipal engineering representative for several local municipalities, reviewing land development and grading applications, reviewing and overseeing inspections of construction work, designing storm sewer systems, and attending monthly municipal meetings.

**Multi-Discipline On-Call Engineering and Planning Services (3 years plus two option years) billed by classifications, Morgantown, West Virginia.** *Morgantown Municipal Airport.* Civil Engineer. Responsibilities include developing a comprehensive stormwater management plan for the runway extension. This included the design of stormwater retention ponds, channels and swales, piping system, as well as grading and surface water drainage on site. Tasking included mapping the overall drainage area and multiple subareas on site, calculating the existing and proposed stormwater runoff volumes and rates, and determining the best location to direct the stormwater. This also included calculating the flow of an existing stream and designing a culvert for the stream to flow too because the runway embankment would encroach upon it. Also responsible for developing erosion and sedimentation controls to prevent any erosion downstream of the pond outlets.

**A/E Services in Support of USACE Philadelphia District - 5 Year Contract, Pennsylvania.** *U.S. Army Corps of Engineers, Philadelphia District.* Civil Engineer. Responsibilities include developing the stormwater and erosion and sedimentation control plans for the site. This included preparing NPDES permitting plans, forms, and calculations for submission to PADEP. This includes the development of multiple separate stormwater conveyance systems and three (3) separate sediment storage and post-construction stormwater management basins.

**2021 Engineering Services, Pennsylvania.** *Callery Borough.* Project Manager. Responsible as the Borough Engineering Representative to manage any engineering issues the borough needs my involvement in. This includes inspecting storm and sanitary sewer systems, developing paving plans, applying for grants for public works projects, and attending monthly borough meetings. Also responsible for developing a new/update storm sewer system to replace the existing, aging stormwater conveyance system in the borough.

**East Palestine Park Rehabilitation, East Palestine, Ohio.** *Norfolk Southern Corporation.* Technical Manager. Responsibilities included leading the civil design team for this park improvements project. This included coordinating multiple engineers and technicians on all elements on the civil design including site and utility layouts, demolition, pavement design, grading and drainage design, utility and storm profiles, construction permitting (NPDES, stormwater, erosion and sedimentation control, and building), and reviewing the design work performed. Also responsible for coordinating with other disciplined architects and engineers to ensure the site-civil design elements matched the overall project goals. Responsible for developing quantities for and reviewing cost estimates, developing bid forms, and technical specifications for the project. The project was multi-phased, so responsibilities also included coordinating future design elements with present phases and making sure each phase could be constructed while allowing the park to remain operational. Responsible for coordinating with multiple utility providers to ensure the project was adequately serviced. Michael Baker developed comprehensive park renderings, conducted engineering studies, obtained permits, developed construction plans, and created project-specific specifications and bid documents.

**Design and Construction Management Master Services Contract, Southwestern, Pennsylvania.** *Duquesne Light Company.* Civil Engineer. Responsibilities included going on site because of Stormwater Drainage and Erosion Control Issues. Developed a plan to prevent further erosion from occurring by directing water around the site to an existing drainage ditch. Tasks included mapping of drainage area, calculating stormwater draining towards site, and developing a grading and stormwater management plan to better control stormwater on site. Michael Baker is providing architectural and engineering services under a three-year master services agreement for design, preconstruction, bid phase, construction management, and other services for the renovation or improvements to the company's facilities and for major capital projects and programs. Michael Baker's services include project management, architectural and engineering design, design management and design reviews, cost estimates, construction sequencing, bidding-phase support, and construction management and inspection.

EDUCATION (Degree, Year, Specialization)

B.C.E., 2009, Civil and Environmental, University of Dayton

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE) | Chi Epsilon, The National Civil Engineering Honor Society

REGISTRATION (Type, Year, State)

Professional Engineer - Civil, Pennsylvania, 2014, PE082371

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NAME & TITLE (Last, First, Middle Init.)

Fogarty, Patrick W., PE, PS, LEED Green Assoc.  
Project Manager

YEARS OF AML DESIGN EXPERIENCE:

29

YEARS OF EXPERIENCE

YEARS OF AML RELATED DESIGN EXPERIENCE:

39

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

30

### BRIEF EXPLANATION OF RESPONSIBILITIES

Patrick is responsible for technical and management aspects of civil design and surveying projects within the Charleston office. He has designed and managed projects in numerous disciplines including civil, structural and transportation engineering, site development, ecosystem restoration, planning, and surveying. These projects have included stream restoration as well as boundary and topographic and photogrammetric surveys. Duties include field surveying, drawings and specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, project management, contract administration, and report preparation. Management duties include financial planning, management and staff utilization, human resource planning, marketing, and strategic planning.

**King Coal Highway Environmental Impact Statement, Mingo, Wyoming, McDowell, and Mercer Counties, Williamson and Bluefield, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager. Responsible for courthouse research. Michael Baker is providing environmental services for a proposed 95-mile four-lane highway project. Services include agency scoping, preparing a Purpose and Need study, an alternatives analysis resulting in the reduction of build alternatives report, and an analysis of the physical, natural, and socioeconomic environment for the preparation of the draft and final Environmental Impact Statements and Record of Decision.

**Engineering Design for Remediation of Crooked Run #5, Harrison County, West Virginia.** *West Virginia Department of Environmental Protection - Office of AML&R.* Project Manager. Responsible for the management and coordination of all activities. Michael Baker provided engineering services to remediate seven abandoned mine sites along Crooked Run Stream near Clarksburg, West Virginia. Services included field investigation and surveys; core boring and water sampling; conceptual, preliminary, and final design of remediation measures; and bid phase and construction phase support.

**Mine Subsidence Remediation Design, Marion County, West Virginia.** *West Virginia Department of Environmental Protection - Office of AML&R.* Project Manager. Engineer-of-Record responsible for the coordination of all activities. Michael Baker provided engineering services to mitigate the effects of mine subsidence at four residential sites. Michael Baker's services included surveying and mapping; field investigation; conceptual, preliminary, and final design of subsidence remediation measures; and bid-phase and construction-phase support.

**Engineering Services to Remediate Landslide Caused by Abandoned Mine Activity, McDowell County, West Virginia.** *West Virginia Department of Environmental Protection - Office of AML&R.* Project Manager. Responsible for the management and coordination of all activities. Michael Baker provided field investigation, engineering services, and construction support to remediate a landslide on private property caused by drainage from abandoned mine portals. Michael Baker provided conceptual, preliminary, and final design documents for remedial drainage measures and provided support during construction.

**Drainage Improvements and Reclamation Measure Design for Four Abandoned Mine Sites, Kanawha County, West Virginia.** *West Virginia Department of Environmental Protection - Office of AML&R.* Project Manager. Responsible for the management and coordination of all activities. Michael Baker is providing surveying and mapping, field investigation, subsurface investigation, water testing and sampling, and conceptual, preliminary, and final design for the reclamation of four abandoned mine sites that are affected by uncontrolled drainage, debris, and hazards from open portals. Michael Baker is also providing bid phase and construction phase support for the remedial measures.

### EDUCATION (Degree, Year, Specialization)

B.S., 1985, Civil Engineering, West Virginia University Institute of Technology

### MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

N/A

### REGISTRATION (Type, Year, State)

Professional Engineer - Civil/Structural, West Virginia, 1990, 10945 | Profession Surveyor - West Virginia, 1993, 970 | LEED Green Associate, West Virginia, 2012, 10750518 | Professional Engineer, Kentucky, 2000, 21390 | Professional Surveyor, Kentucky, 2001, 3584 | Professional Engineer, North Carolina, 2008, 034707 | Professional Engineer, Ohio, 1996, E-60205 | Professional Surveyor, Ohio, 1996, S-7945 | Professional Engineer, Virginia, 2002, 0402037876 | Construction Documents Technologist, 1996, CSI 1996 | FAA, Eastern Region Laboratory Procedures Manual Certificate (P-401), 1992



# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment 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 Init.)

Lamont, Michael J.  
Grading • Earthwork

YEARS OF AML DESIGN EXPERIENCE:  
28

YEARS OF EXPERIENCE  
YEARS OF AML RELATED DESIGN EXPERIENCE:  
40

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:  
30

### BRIEF EXPLANATION OF RESPONSIBILITIES

Michael is a designer with a background in site development, pipelines, telecommunications, abandoned mine land reclamation including acid mine drainage abatement, stream channel restoration, mine portal sealing, surface facility design, and coal refuse facilities reclamation. He has extensive experience with AutoCAD design software packages with an emphasis on engineering design applications using AutoCAD Land Development and Civil 3D to automate the design of grading, profiling of utilities, horizontal and vertical roadway alignments, drainage, and earthwork calculations.

**Waitman Barbe Highwall #1, Monongalia County, West Virginia.** *West Virginia Division of Environmental Protection.* Technical Specialist. Prepared construction plans, detail, and cross-section sheets and earthwork balancing for the project, and highwall backfilling grading. Provided erosion and sedimentation control measures, site regrading, mine seals, and collection and diversion ditch alignments and profiles. Michael Baker's responsibilities included research of existing geological data and mining maps, review of water quality data, erosion and sedimentation controls, design of wet and buried mine seals with bat gates at suspected mine entries, backfilling of existing highwalls to stable configurations, site grading, upgrade of existing access roads, reclamation of onsite spoil and coal, culverts and channel, removal of non-hazardous trash and waste from the site, and revegetation of all disturbed areas. Additional responsibilities were for coordination of the check survey and drilling by subconsultants and the preparation of the WV NPDES Stormwater Permit.

**Collier Sportsman's Club Highwalls, Brooke County, West Virginia.** *West Virginia Division of Environmental Protection.* Technical Specialist. Prepared construction plans, detail, and cross-section sheets and earthwork balancing for the project, and highwall backfilling grading. Provided erosion and sedimentation control measures, site regrading, mine seals, and collection and diversion ditch alignments and profiles. Michael Baker's responsibilities included research of existing geological data and mining maps, review of water quality data, erosion and sedimentation controls, design of wet and buried mine seals with bat gates at suspected mine entries, backfilling of existing highwalls to stable configurations, site grading, upgrade of existing access roads, reclamation of onsite spoil and coal refuse, culverts and channel design, removal of non-hazardous trash and waste from the site, and revegetation of all disturbed areas. Additional responsibilities were for coordination of the check survey and drilling by subconsultants and the preparation of the WV NPDES Stormwater Permit.

**Professional Mapping and Design Services at the Bond Forfeited Permits of the Maurice Jennings Coal Company S-61-83 & S-53-78, Preston County, West Virginia.** *West Virginia Division of Environmental Protection.* Technical Specialist. Responsibilities include Prepared construction plans and profiles, details, erosion and sediment control measures, collection and diversion channels, and revegetation.

**Maple Run Portals and Tipple, West Virginia.** *West Virginia Division of Environmental Protection.* Technical Specialist. Prepared construction plan, profile, detail, and cross section sheets and earthwork balancing for the project, which included, site grading, mine seals, collection and diversion ditches, placement of soil cover, and revegetation.

**Emoryville Mine Complex, West Virginia.** *West Virginia Division of Environmental Protection.* Technical Specialist. Prepared construction plan, profile, detail, and cross-section sheets and earthwork balancing for the project which included erosion and sedimentation control measures, site regrading, mine seals, collection and diversion ditches, removal of abandoned barges and coal refuse from the North Branch of the Monongahela River, placement of soil cover, and revegetation.

**Watson Portal and Refuse Reclamation, West Virginia.** *West Virginia Division of Environmental Protection.* Technical Specialist. Prepared construction plan, profile, detail, and cross-section sheets and earthwork balancing for the project which included erosion and sedimentation control measures, site regrading, mine seals, collection and diversion ditches, removal of abandoned barges and coal refuse from the North Branch of the Monongahela River, placement of soil cover, and revegetation.

**Mountain View Portals Mine Reclamation, Preston County, West Virginia.** *West Virginia Division of Environmental Protection.* Technical Specialist. Prepared construction plan, profile, detail, and cross-section sheets and earthwork balancing for the project which included erosion and sedimentation control measures, site regrading, mine seals, collection and diversion ditches, stream re-channelization, placement of soil cover on exposed refuse, and revegetation.

EDUCATION (Degree, Year, Specialization)

A.D., 1986, Computer Aided Drafting and Design, ITT Technical Institute

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

N/A

REGISTRATION (Type, Year, State)  
N/A



# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment 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 Init.)

Perdue, Matthew J.  
Grading • Earthwork

YEARS OF AML DESIGN EXPERIENCE:

30

YEARS OF EXPERIENCE

YEARS OF AML RELATED DESIGN EXPERIENCE:

30

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

15

### BRIEF EXPLANATION OF RESPONSIBILITIES

Matt has experience in MicroStation V7 and V8, AutoCAD 2009, and other CADD packages and design software. He also has experience working on a survey crew which has enhanced his ability to generate drawings from survey field data. His work experience includes WVDOT highway projects, landfill cap and liner projects, landscape architectural and site development projects for various sites including convenience stores, hospitals, sports complexes, schools, and regional jail and juvenile detention facilities, as well as large stormwater impoundment facilities including complete dam design and renovation and upgrade of existing substandard facilities. As a CADD operator, responsibilities are coordinating project managers and other staff professionals to generate a final CADD product that meets client expectations and satisfies all project requirements.

**Drainage Improvements and Reclamation Measure Design for Four Abandoned Mine Sites, Kanawha County, West Virginia.** *West Virginia Department of Environmental Protection - Office of AML&R.* CADD Designer. Responsible for conceptual design and final design drawings. Michael Baker is providing surveying and mapping, field investigation, subsurface investigation, water testing and sampling, and conceptual, preliminary, and final design for the reclamation of four abandoned mine sites that are affected by uncontrolled drainage, debris, and hazards from open portals. Michael Baker is also providing bid phase and construction phase support for the remedial measures.

**Engineering Design for Remediation of Crooked Run #5, Harrison County, West Virginia.** *West Virginia Department of Environmental Protection - Office of AML&R.* CADD Designer. Responsible for conceptual design and final design drawings. Michael Baker provided engineering services to remediate seven abandoned mine sites along Crooked Run Stream near Clarksburg, West Virginia. Services included field investigation and surveys; core boring and water sampling; conceptual, preliminary, and final design of remediation measures; and bid phase and construction phase support.

**Engineering Services to Remediate Landslide Caused by Abandoned Mine Activity, McDowell County, West Virginia.** *West Virginia Department of Environmental Protection - Office of AML&R.* CADD Designer. Responsible for conceptual design and final design drawings. Michael Baker provided field investigation, engineering services, and construction support to remediate a landslide on private property caused by drainage from abandoned mine portals. Michael Baker provided conceptual, preliminary, and final design documents for remedial drainage measures and provided support during construction.

**Mine Subsidence Remediation Design, Marion County, West Virginia.** *West Virginia Department of Environmental Protection - Office of AML&R.* CADD Technician. Responsible for conceptual design and final design drawings. Michael Baker provided engineering services to mitigate the effects of mine subsidence at four residential sites. Michael Baker's services included surveying and mapping; field investigation; conceptual, preliminary, and final design of subsidence remediation measures; and bid-phase and construction-phase support.

**Veterans Memorial Bridge Six-Year Inspection Program, Weirton, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Drafting Technician. Responsible for the generation of an existing bridge conditions drawing from field notes to insert into a report. As part of a six-year program, Michael Baker has performed annual inspections since 2018 on the Veterans Memorial Bridge, based on the Federal Highway Administration's National Bridge Inspection Standards. The six-year inspection program includes routine, special, and in-depth routine levels of inspection. In 2020, the third year of the inspection cycle, Michael Baker conducted a magnetic flux leakage (MFL) inspection utilizing a subconsultant, Structural Technologies. An MFL inspection is a non-destructive method to test or scan the stay cables for any areas indicating wire strand breakage inside the cables.

**Dunbar Toll Bridge Inspections, Kanawha County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Drafting Technician. Responsible for providing drafting support. As part of a six-year program, Michael Baker has performed annual inspections since 2019 of the Dunbar Toll Bridge using the Federal Highway Administration's National Bridge Inspection Standards. Michael Baker is providing inspection services to perform hands-on, in-depth, routine, and special inspections of the Dunbar Toll Bridge over the course of six years. For each year, Michael Baker will prepare an individual inspection report and provide any recommendations for additional nondestructive testing, special studies, or more frequent inspections.

EDUCATION (Degree, Year, Specialization)

Vocational/Technical, 1987, Drafting/Surveying Studies, Carver Career and Technical Center | Coursework, Computer Aided Drafting and Design, West Virginia State College

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

N/A

REGISTRATION (Type, Year, State)

N/A

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**Attachment A**

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

<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Perdue, Matthew J.</b> <b>Grading • Earthwork</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>30</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>30</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>15</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Matt has experience in MicroStation V7 and V8, AutoCAD 2009, and other CADD packages and design software. He also has experience working on a survey crew which has enhanced his ability to generate drawings from survey field data. His work experience includes WVDOT highway projects, landfill cap and liner projects, landscape architectural and site development projects for various sites including convenience stores, hospitals, sports complexes, schools, and regional jail and juvenile detention facilities, as well as large stormwater impoundment facilities including complete dam design and renovation and upgrade of existing substandard facilities. As a CADD operator, responsibilities are coordinating project managers and other staff professionals to generate a final CADD product that meets client expectations and satisfies all project requirements.

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**Dunbar Toll Bridge Inspections, Kanawha County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Drafting Technician. Responsible for providing drafting support. As part of a six-year program, Michael Baker has performed annual inspections since 2019 of the Dunbar Toll Bridge using the Federal Highway Administration's National Bridge Inspection Standards. Michael Baker is providing inspection services to perform hands-on, in-depth, routine, and special inspections of the Dunbar Toll Bridge over the course of six years. For each year, Michael Baker will prepare an individual inspection report and provide any recommendations for additional nondestructive testing, special studies, or more frequent inspections.

<b>EDUCATION</b> (Degree, Year, Specialization) Vocational/Technical, 1987, Drafting/Surveying Studies, Carver Career and Technical Center   Coursework, Computer Aided Drafting and Design, West Virginia State College	<b>REGISTRATION</b> (Type, Year, State) N/A
<b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> N/A	



# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment 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 Init.)

Hicks, Sheila K.

Real Estate

YEARS OF AML DESIGN EXPERIENCE:

0

YEARS OF EXPERIENCE

YEARS OF AML RELATED DESIGN EXPERIENCE:

15

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

0

### BRIEF EXPLANATION OF RESPONSIBILITIES

Sheila has more than 20 years of experience in highway and multi-modal transportation planning. Her previous experience includes working as both a consultant with the states of West Virginia and North Carolina. She has led public involvement outreach efforts, right-of-way discussions, and property boundary research with municipalities across West Virginia, and coordinated the development of the West Virginia's Statewide Transportation System. Most recently, Sheila has led the on-call traffic counting program technical components for WVDOT, as well as processing data received during pavement data collection and analysis.

**On-Call Statewide Traffic Count Program, West Virginia.** *West Virginia Department of Transportation.* Project Manager for two year on-call project for the West Virginia Department of Transportation, Planning Division, for the Statewide Traffic Counting Program. Services included Statewide traffic data collection for coverage counts program where the traffic data was collected for Districts 1, 4, 6, 7, 8 and 9. The traffic data include volume and classification counts. All traffic counts were collected and configured to measure direction traffic volume and classification. Where the count location is more than 2 through travel lanes, additional counters were placed to accurately collect traffic information. After the counts were collected, the counter data was downloaded, reviewed, converted to GeoCounts format, and uploaded through the GeoCounts interface.

**State Rail Plan, Statewide, West Virginia.** *West Virginia Department of Transportation.* Project Planner for the preparation of a Passenger Rail Investment and Improvement Act of 2008 (PRIIA) compliant plan. This plan was a comprehensive look at West Virginia's rail freight and passenger systems. As part of the project plan visions and goals were developed by working with a steering committee which includes representatives from various agencies with a major vested interest in rail transportation and will include representation of all transportation modes, other agencies with major vested interest in transportation (WV Rail Authority, Metropolitan Planning Organizations (MPOs), private railroad companies, Amtrak, Regional Planning and Development Councils, etc.). The State Rail Plan is required for WV to be eligible for existing and prospective federal rail financial assistance. To ensure that the study was as comprehensive as possible and looked at issues that were important to transportation decision makers in West Virginia. Two rounds of eight public meetings were conducted during the plan development process.

**Bicycle Plan, Statewide, West Virginia.** *West Virginia Department of Transportation.* Project Planner. Assisted with planning study to identify and finalize a system of designated, signed bicycle routes using West Virginia's highway system. A prime objective is to develop routes which would connect to other states, allowing expansion of the US Bicycle Route System and/or connecting WV cities and communities. As project planner completed analysis to identify potential statewide bike routes, assisted with development of PowerPoint and Handouts of technical data for public involvement.

**Multimodal Statewide Transportation Plan Statewide, West Virginia.** *West Virginia Department of Transportation.* Project Planner. Worked as project planner for the preparation of an integrated, fiscally- constrained, multimodal statewide transportation plan for the state. The work consisted of preparation of a transportation plan that identifies and recommends policies, strategies, and projects to address multimodal transportation needs in West Virginia through a 25-year planning horizon. The plan was developed in coordination with each of the modal agencies within WVDOT. The plan identifies and analyzes opportunities for intermodal connections among the various modes and prioritizes and recommends those which were determined to be feasible. A financial plan was also prepared, as well as recommendations for monitoring, updating, and revising the plan on a continuing basis. Developed the public involvement PowerPoint presentation as well as board and hands out. Assisted in writing various sections of the final report and coordinated closely with WVDOT throughout the process of developing the plan.

EDUCATION (Degree, Year, Specialization)

B.S.B.A., 2019, Business Administration/Marketing, West Virginia State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

N/A

REGISTRATION (Type, Year, State)

American Planning Association (APA)

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

**Attachment A**

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

<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Cragle, Jeffrey M.</b> <b>Real Estate</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>0</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>10</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Jeff has experience in map production and design for a variety of projects throughout West Virginia and nationally. As a GIS Associate, he has been part of the West Virginia Department of Transportation Pavement Collection and Analysis team. His previous experience includes being project lead for numerous transportation projects creating maps and supporting documents for archeological and historic background studies, including NEPA and Section 106 documents. Other GIS experience includes utility design, digital data migration, and land use modeling for suitability modeling.

**Pavement Collection and Analysis.** *West Virginia Department of Transportation.* GIS Associate. Michael Baker performed pavement inventory and analysis services in support of the West Virginia Department of Transportation's (WVDOT) Highway Performance Monitoring System (HPMS) to report pavement conditions of off-state National Highway System (NHS) segments. Inventory was performed using our mobile data collection vehicle, which leverages the LCMS, mobile LiDAR and spherical 360-degree camera. Pavement data was processed to provide International Roughness Index (IRI), rutting, faulting, and crack percentages in accordance with HPMS reporting guidelines. The processed data was aligned with WVDOT's standardized Linear Reference System (LRS) and HPMS network. Inventory data was combined with WVDOT's on-state pavement data inventory.

**Coalfields Redevelopment Authority Landuse Suitability Study, Various Locations, West Virginia.** GIS Associate. Prepared land use models and suitability studies for the potential redevelopment of abandoned coal mines in West Virginia.

**Piney Woods Archeological Survey Investigation, Texas.** *USACE.* GIS Associate. Project lead responsible for the preparation of all map documents required for archeological survey investigation of the Piney Woods area of Texas. The work consisted of the creation of survey maps referencing existing historic and archeological resources for the field crew. Preparation of post-survey maps and figures for inclusion in final report identifying surveyed locations and artifact finds.

**Boeing Starliner Archeological Background Study, California.** *United States Air Force.* GIS Analyst. This study is for the proposed Boeing Starliner launch facility in California. Jeff served as lead GIS analyst and prepared site survey maps in coordination with the USAF and staff archeologists.

**Various Transportation Projects, Cultural and Historic Background Studies, Multiple Locations, Texas.** *Texas Department of Transportation.* GIS Associate. Responsible for the preparation of all maps, GIS, and GPS data related to the historic and archeological background surveys for TXDOT transportation projects throughout Texas to meet NEPA and Section 106 requirements. Process and convert data for use in ArcGIS including: DGN, KMZ, PDF, and other file formats.

**Verizon FIOS and 5G Design and Construction, Austin, Texas.** *Verizon.* Lead GIS Design Engineer for Verizon's FIOS and 5G construction project in the Austin, TX market. Jeff was responsible for coordinating daily tasks with the GIS team to meet production deadlines. Prepare documentation for monthly accounting and project status updates. Use ArcGIS and 3GIS to design fiberoptic network to Verizon's design specifications.

**Metropolitan Utility District Data Migration Project, Nebraska.** GIS Analyst. Performed digital data migration of the Gas and Water Utility system from a paper map system to an enterprise GIS map network. Performed quality control checks and data clean-up including topology checks using Data Reviewer, and network connectivity with Utility Network.

<b>EDUCATION</b> (Degree, Year, Specialization) M.P.A., 2017, Urban Planning/GIS, Marshall University   M.A., 2016, Geography, GIS and Remote Sensing, Marshall University   B.A., 2012, Geography, Marshall University	<b>REGISTRATION</b> (Type, Year, State) N/A
<b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> West Virginia Professional Association of Geospatial Professionals (WVAGP)	

# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment 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 Init.)

Frye, Jeffery A., PE  
Treatment

YEARS OF AML DESIGN EXPERIENCE:

13

YEARS OF EXPERIENCE

YEARS OF AML RELATED DESIGN EXPERIENCE:

37

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

33

### BRIEF EXPLANATION OF RESPONSIBILITIES

Jeff is a professional engineer with experience in project design, management, and technical support to public and private sector clients comprised of municipalities, authorities, government agencies, and developers. He has a diversified background providing engineering services on projects involving utility and infrastructure design and rehabilitation, site development, permitting, storm and sanitary sewer design, water supply, roadwork, erosion and sedimentation control plans, land surveying, construction inspection, and project management.

**2023 Engineering Services, Pennsylvania. Bridgewater Municipal Authority.** Project Manager. Provided consulting engineering for the owner, submitted PA DEP Chapter 94 reports, and pump station flow monitoring. Additionally, prepared bidding and contract documents for infrastructure improvement projects and attended monthly authority board meetings.

**3-year Contract, Pennsylvania. Duquesne Light Company.** Project Engineer. Provided engineering design for the replacement of the existing aeration tank at the Warwick Acid Mine Drainage (AMD) Treatment Plant with maelstrom oxidizers, influent splitter box, detention boxes and partial replacement and extension of the existing flume conveying treated AMD water to the plant clarifiers. Work included evaluation of various alternative treatment systems and coordinated with the client, and other Michael Baker departments including structural engineers and construction services.

- **O&M Manual. Duquesne Light Company.** Technical Manager. Provided ongoing engineering assistance, technical advice, attended meetings and consultation with company representatives for the creation of an O & M Manual for the equipment at the Duquesne Light Company Warwick Mine AMD Treatment Facility.

- **Flume Phase 2. Duquesne Light Company.** Technical Manager. Responsibilities included providing ongoing engineering assistance and design for the replacement and rehabilitation of the flumes at the Duquesne Light Company Warwick Mine AMD Treatment Facility.

- **Aeration Tank Design. Duquesne Light Company.** Technical Engineer. Provided engineering design for the replacement of the existing aeration tank at the Warwick Acid Mine Drainage (AMD) Treatment Plant with Maelstrom Oxidizers, influent splitter box, detention boxes and partial replacement and extension of the existing flume conveying treated AMD water to the plant clarifiers. Work included evaluation of various alternative treatment systems and coordinating with the client, and other Michael Baker International departments including structural engineers and construction services.

- **AMD Plant Rehab. Duquesne Light Company.** Project Engineer. Provided ongoing engineering assistance, technical advice, attended meetings and consultations with company representatives for the aeration treatment, flume replacement and clarifier launder replacement at the Duquesne Light Company Warwick Mine AMD Treatment Facility.

**Crabtree Creek AMD Restoration Project, Westmoreland County, Pennsylvania. PA Department of Environmental Protection.** QA/QC Engineer. Providing permitting, survey, geotechnical, and design services for the Crabtree Creek AMD Restoration Project in Westmoreland County, Pennsylvania. Work included providing calculations, modeling, and design of the collection system for the mine pool AMD discharge and the design of approximately 18,300 feet of pipeline for gravity conveyance of the AMD discharge from the collection point to the passive treatment system site. Michael Baker provided permitting, survey, geotechnical, and design services for the Crabtree Creek AMD Restoration Project in Westmoreland County, Pennsylvania. Work included the design of the collection system of the mine pool AMD discharge and the design of approximately 18,300 feet of pipeline for gravity conveyance of the AMD discharge from the collection point to the passive treatment system site.

**Amtrak Nationwide AE Services IDIQ, Nationwide. Amtrak.** Water Resources Engineer. Designed three stormwater pump stations to control runoff and groundwater for the Amtrak Rail facility in Florence, South Carolina. Michael Baker is providing architectural and engineering design and construction-phase services at various Amtrak stations nationwide. Each station includes a mixture of Americans with Disabilities Act (ADA) and state-of-good-repair (SOG) station and platform improvements. Michael Baker's services have included schematic design, construction documentation and administration for architectural, structural, civil, stormwater, mechanical, and electrical engineering, along with cost estimating, bid review, construction administration, renderings, and presentations. Additionally, this project required coordination with the FRA, an SHPO review, and other third-party entities.

EDUCATION (Degree, Year, Specialization)

B.S.A.S., 1989, Civil Engineering/Construction Engineering Technology, Youngstown State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

N/A

REGISTRATION (Type, Year, State)

Professional Engineer - Civil, Pennsylvania, 1997, PE049763E | Professional Engineer - Civil, Ohio, 2000, PE.65330



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<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Hollern, Andrew P., PE</b> <b>Hydrology • Stormwater • E&amp;S • NPDES</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>4</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>9</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>7</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Throughout his career, Andrew has experience in stormwater management design across a diverse background of client settings, including post-construction stormwater BMPs for natural gas clients, stormwater drainage systems for local municipalities, floodplain/floodway modeling and delineation for commercial development, and bridge hydraulic modeling for local government. This has made him adept in learning modeling software and understanding storm-water management concepts. Alongside his design/modeling background, Andrew has experience in permit development for PADEP Chapter 105, Chapter 106, as well as ESCGP-3 and WMGR-123 permits for natural gas clients.

**East Palestine Park Rehabilitation, East Palestine, Ohio.** *Norfolk Southern Corporation.* Civil Engineer. Responsible for site design and drawings. Michael Baker developed comprehensive park renderings, conducted engineering studies, obtained permits, developed construction plans, and created project-specific specifications and bid documents.

**Equipment Concentration Site Maintenance Building, Camp Shelby, Hattiesburg, Mississippi.** *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsible for supporting civil site design, Stormwater design, and drawing package development. Michael Baker is providing all services required to prepare plans, specifications, and other supporting documents necessary for a design build request for proposal utilizing the Army Reserve Design Build Instruction Manual and Template. The project scope includes renovation of an Equipment Concentration Site including an existing maintenance building, warehouse, administration building, and MEP.

**PennEnergy MSA 2019, Pennsylvania.** *PennEnergy Resources, LLC.* Civil Engineer. Responsibilities included W58 Well Pad site design, grading, storm water management, site plans, and ESCGP-3 permit package. As the project progressed the site layout had to change multiple times due to constraints such as landowner agreements and geotechnical issues. This led to major adjustments in well pad locations, access roads, and storm water facilities. Responsible for making all necessary adjustments, grading, and balancing the site and erosion control design. The ESCGP-3 package entailed wet pond and storm water management design as well as erosion and sediment control facilities including a sediment basin design. The program used for hydrologic analysis was HydroCAD. Also responsible for B22 Well Pad ESCGP-3 major modification for expansion of well pad and removal of gravel area in the post-construction condition. This required an expansion of an existing wet pond as well as reconfigured hydrology calculations for the site. Additionally, responsible for developing the major modification permit package.

**P-199 Aircraft Maintenance Hangar MCAS CHPT, Marine Corps Air Station Cherry Point, Havelock, North Carolina.** *NAVFAC Mid-Atlantic.* Civil Engineer. Responsible for updating site and utility layouts for the P-199 Hangar Facility to facilitate revised sidewalk layouts and wash rack relocation. Michael Baker provided design management and all engineering and interior design services for a 150,003-square-foot, two-squadron module Type I aircraft maintenance hangar for the F-35B Lightning aircraft at MCAS Cherry Point. Work included design management; site civil; landscape architecture; interior design; structural, mechanical, electrical, and plumbing systems; telecommunication and security system design; fire protection system and life safety analysis; and anti-terrorism/force protection compliance. The hangar included an AFFF system and preconditioned air systems for the F35 airframe. The design-build project complies with UFC 1-200-02 High Performance and Sustainable Building Requirements with third-party certification for GBCI Guiding Principles Assessment. The facility combines high bay space for 12 aircraft, aircraft support shops, administration space, and secure spaces designed in accordance with ICD 705. The adjacent apron was designed to accommodate 21 aircraft shelters and all associated apron infrastructure for aircraft kiosks. The project included the design of a 4,420-square-foot paraloft facility for parachute packing and storage/repair of ancillary aviation equipment.

**Fifth & Dinwiddie Design Services, Pennsylvania.** *Fifth and Dinwiddie Partners, LLC.* Civil Engineer. Responsibilities included storm water management calculations, layout, and design. Programs used for hydraulic and hydrology calculations were Hydraflow Hydragraphs as well as Hydraflow Storm Sewers extensions to AutoCAD. Also, aided in the development of site design and plan sheets for construction and permitting purposes. Responsible for developing permit packages such as the NPDES permits, and submissions to the City of Pittsburgh such as Pittsburgh Sewer and Water Authority, Department of Public Works, as well as other Pittsburgh agencies.

<b>EDUCATION</b> (Degree, Year, Specialization) B.S., 2016, Environmental Engineering, Saint Francis University <b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> N/A	<b>REGISTRATION</b> (Type, Year, State) Professional Engineer, Pennsylvania, 2021, PE092855   Professional Engineer - Civil, Iowa, 2024, 29217   Professional Engineer - Civil, Colorado, 2024, PE.0065224   OSHA 10-Hour Construction Outreach Training, 2016, 6745_1278178
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**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AML CONSULTANT QUALIFICATION QUESTIONNAIRE**

Attachment A

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

<b>NAME &amp; TITLE (Last, First, Middle Init.)</b> <b>Slater, Nicolas, PE</b> <b>Hydrology • Stormwater • E&amp;S • NPDES</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>0</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>8</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Nicolas is experienced in the operation of AutoCAD, AutoCAD Civil 3D, HydroCAD, SewerCAD, Highway Capacity Software, ANSYS, MicroStation, and Bentley FlowMaster. He has been a part of multiple oil and gas permitting projects and is experienced in E&S design and plan preparation. Nicolas has been heavily involved in ESCGP-3 application permits in southwest PA, with some experience in northwest and northcentral PA, as well as West Virginia. He is also experienced in stormwater analysis and design, and BMP grading and design.

**PIT Terminal Modernization Program Multi-Modal, Pittsburgh International Airport (PIT), Pennsylvania.** *Allegheny County Airport Authority.* Civil Engineer. Responsible for Site plan preparation, detail coordination, and Stormwater conveyance design and calculations for the G, P, E and Q Packages. Michael Baker is providing design and construction administration services for the development of a new multi-modal complex as part of the Terminal Modernization Program at Pittsburgh International Airport. The program consists of a new landside terminal building, new entrance and exit roads, including departures, arrivals, and commercial curbs, and all landside facilities needed for the operation of the new terminal. Michael Baker was responsible for the design of the landside facilities, including a new 3,300-space parking garage that also houses the rental car ready/return, an enclosed connector between the new garage and terminal that also houses the rental car customer service building, the rental car quick-turnaround facilities, new surface parking consisting of approximately 2,750 stalls, parking and rental car entrance and exit roads, an employee parking lot that includes approximately 450 spaces with its own entrance, and remote hold lots for taxis, commercial vehicles, TNCs, and cell lot customers. Michael Baker provided all civil, geotechnical, roadway, architectural, mechanical, electrical, plumbing, fire protection, and structural engineering design for the new facilities.

**Bahrain F-16V Final Operating Conditions, ISA Air Base & Sakhir Air Base, Bahrain.** *U.S. Army Corps of Engineers, Transatlantic Middle East District.* Civil Engineer. Responsible for stormwater calculations for multiple sites on the project. Prepared stormwater design calculations for channels, culverts, and ponds and associated calculation packages. Michael Baker is providing cost estimating, civil land development, and design of civil land development, airfield, structural, architectural, interior, fire protection, plumbing, mechanical, electrical, telecommunications, cybersecurity, and sewage treatment structures for the F-16 Block 70 Bed-Down project at ISA Air Base and Sakhir Air Base in Bahrain. The scope of work is to use an existing Master Plan, site survey, geotechnical, and topographic studies conducted under previous task order to prepare the designs and construction documents for facilities, pavements, and supporting infrastructure at the air bases.

**Buckeye Lake Dam Improvements, Fairfield County, Ohio.** *Ohio Department of Natural Resources.* Civil Associate. Responsibilities included preparing drainage area calculations in AutoCAD Civil 3D. Michael Baker provided engineering services to bring Buckeye Lake Dam into compliance with current regulations. Michael Baker's services included a site assessment, permitting, final design, and construction administration.

**Chapman Dam Rehabilitation Contract 2012-2020, Pleasant Township, Pennsylvania.** *Pennsylvania Fish and Boat Commission.* Civil Associate. Responsible for on-site construction inspection. Responsibilities included reviewing construction submittals from the contractor, construction plans and specification review, attending site meetings to review the project as it is completed, on-site visits to ensure plans and specifications are being followed, and preparation of daily site visit reports documenting site work.

Michael Baker performed analyses, provided permitting services, developed designs, and performed construction administration for the rehabilitation of the Chapman Dam, located on the West Branch of Tionesta Creek, within Chapman State Park. Michael Baker was responsible for designing the renovations of the existing spillway and outlet works, addressing stability and seepage concerns with the embankment, and evaluating the dam's compliance with PADEP regulations regarding overtopping protection during the design event.

**Restoration of the Canonsburg Lake's Aquatic Ecosystem, Pennsylvania.** *Redevelopment Authority of Washington County.* Civil Associate. Responsible for the development of the post construction lake management plan. Responsibilities included research of ordinances and manuals related to the lake management of Canonsburg Lake, drafting the outline of the Lake Management Plan, and attending meetings to incorporate the needs of the watershed alliance.

<b>EDUCATION (Degree, Year, Specialization)</b> B.S., 2017, Engineering, Geneva College <b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> N/A	<b>REGISTRATION (Type, Year, State)</b> Professional Engineer, Ohio, 2022, PE88089
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**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Boyd, Jason M., PE</b> <b>Construction Services</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>0</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>29</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Jason leads the Construction Services team in West Virginia, providing expert level construction inspection, materials testing, and construction management support services throughout the state. With 25 years of prior experience at the West Virginia Department of Transportation, Division of Highways, he is extremely knowledgeable in the administration of various phases of complex construction projects as well as the management of construction organizations. In his current role, Jason experience continues to be utilized by the West Virginia Division of Highways in the areas of construction management, claim mitigation, dispute resolution, and CPM schedule review.

Jason's previous roles with the Division of Highways included Division Director, Regional Construction Engineer, Area Engineer, Project Engineer, and Project Inspector. Most recently, his responsibilities included contractor prequalification, contract development, contract procurement, bid analytics, specifications, integrated construction technologies, consultant inspection, and regional construction engineers. He had considerable interaction statewide with WVDOH management, districts, divisions, industry, and external state and federal agencies. Jason provided contract administration for processing and delivering the construction program averaging 500+ contracts/year; valued at \$700+million/year.

**Corridor H Quality Assurance Management (QAM) Services, Randolph and Tucker Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Construction Manager. Responsibilities included providing high level construction experience and knowledge of the client's policies and procedures to facilitate coordinated management of the project. Michael Baker provided quality assurance management (QAM) for construction of Sections 1, 2, and 3 of the Corridor H Highway from Kerens to Parsons. During a long-term relationship with the client, Michael Baker served as the owner's representative to provide all the services needed from pre-award phase, through post-award and construction stages of their largest ever construction project being executed as design-build.

**Mountain View to Gilbert, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Project Manager. Assisting with the development and execution of the contract consisting of approximately 4.5 miles of 2-lane roadway grading and paving as part of the unit price portion of the contract and a design-build contract for design and construction of a 3-mile connector road to existing US52. Works with District 2 personnel to assist in coordinating pre-construction activities such as right-of-way, utilities, environmental, contractor proposed design changes, and contractor submittal reviews. Works with the District Construction Engineer and Regional Engineer to resolve potential contract issues. Responsible for oversight of the CPM schedule reviews and provides inspection personnel and equipment needed to maintain the construction inspection teams. Currently managing the installation and commissioning of an onsite materials testing lab to perform testing.

**2023-2028 Statewide Construction Inspection Services, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Project Manager. Responsibilities include the preparation of a training program and manual to provide training for WVDOH personnel to review CPM schedules using Primavera P6 software. This work is performed at the direction of the Contract Administration Division to provide a uniform process for reviewing CPM schedules throughout the 10 Districts.

**Various District and Central Office Assignments, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Manages various assignments throughout the state to assist with project and construction management activities on an as needed basis. Currently reviewing CPM schedules, assisting with claim submittal responses, and providing construction management and materials testing support in several Districts.

<b>EDUCATION</b> (Degree, Year, Specialization) B.S.C.E., 1996, Civil Engineering, West Virginia University  <b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> American Council of Engineering Companies (ACEC)   Contractors Association of West Virginia (CAWV)	<b>REGISTRATION</b> (Type, Year, State) Professional Engineer, West Virginia, 2001, 14852
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<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Belcher, Jennifer A., PE</b> <b>Construction Services</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>0</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>16</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>1</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

With over 32 years of prior construction administration, transportation, structural, and traffic engineering experience with various consultants and at the West Virginia Department of Transportation, Division of Highways, Ms. Belcher is extremely knowledgeable in the design and administration of various phases of complex design and construction projects as well as the management of large construction projects. Her career started in roadway design and progressed to offshore structural design, transportation, and traffic engineering projects, to design and construction management at the Division of Highways and finally to the contractor side managing the construction of large-scale roadways and bridges.

**Littlesburg-Mercer Co Airport, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Project Engineer. Responsible for the quality assurance management for construction of approximately 2.4 miles of 4-lane roadway excavation and grading along with final grading and paving of a 2-lane roadway to extend King Coal Highway from John Nash Boulevard (US52) to WV Route 20 near the existing Littlesburg road intersection. Works with District 10 personnel in coordinating pre-construction and construction activities such as environmental, contractor proposed design changes, and contractor submittal reviews. Responsible for CPM schedule reviews and assisting field personnel on contract and design related issues.

**Mountain View to Gilbert, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Project Manager. Responsible for assisting with the execution of the contract consisting of approximately 4.5 miles of 2-lane roadway grading and paving as part of the unit price portion of the contract and a design-build contract for design and construction of a 3-mile connector road to existing US52. Works with District 2 personnel to assist in coordinating pre-construction activities such as right of way, utilities, environmental, contractor proposed design changes, and contractor submittal reviews. Responsible for final CPM schedule reviews and assisting inspection personnel on contract and design related issues.

**CPM Training Assignment, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Reviewer. Responsible for the preparation of a training program and manual to provide training for WVDOH personnel to review CPM schedules using Primavera P6 software. The work is performed at the direction of the Contract Administration Division to provide a uniform process for reviewing CPM schedules throughout the 10 Districts.

**Pure Salmon VA-RAS Site Preparation, Claypool Hill, Virginia.** *Virginia Department of Transportation.* Project Manager. Responsible for managing the daily construction administration activities and developing solutions for on-site design issues due to the fact that the site work commenced prior to finalization of the building campus footprint and final location. The work included clearing, excavation and embankment, roadway rough grading, drainage structures, wick drain preparation, surcharge, and erosion & sediment control along with temporary and permanent sediment basins. Work was required within VDOT right of way and the access road was constructed in compliance with VDOT specifications to be part of a locally administered VDOT project.

**U.S. 35, Bid-Build, WV869 Interchange, Putnam County, West Virginia.** *West Virginia Department of Transportation.* Project Manager. Performed project administration and construction management of the contract including coordination with multiple construction subcontractors due to a large DBE goal. Construction activities included: excavation and grading, drainage, structures, paving, lighting, retaining walls, appurtenances, and erosion control. The project includes the reconfiguration and extension of a parallel service road to provide access to existing private properties on the southeast quadrant of the intersection and provides connections between the newly constructed 4-lane US 35, the existing 4-lane of US 35, and old US 35 renumbered as WV 817.

**I-77 Bid-Build, East River Bridge-Ingleside Rockslide, Mercer County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Project Manager. Responsible for administration and management of the project interacting with project personnel and WVDOH personnel to resolve project specific issues. Prepared correspondence, agreements, change orders, etc. to maintain contract compliance and closeout the project. Visited project on a regular basis to review constructability issues, maintenance of traffic, and verify the contract was proceeding on schedule. Removal of approximately 90,000 cubic yards of material to minimize rock fall and create a bench for future falling material to increase safety for the traveling public. Maintenance of Traffic was a critical aspect of the project due to the required blasting in close proximity to the roadway and the requirement to maintain all 4-lanes of traffic.

<b>EDUCATION</b> (Degree, Year, Specialization) B.S.C.E., 1996, Civil Engineering, West Virginia University <b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> American Council of Engineering Companies (ACEC)   Contractors Association of West Virginia (CAWV)	<b>REGISTRATION</b> (Type, Year, State) Professional Engineer, West Virginia, 2001, 14852
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<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Lasko, John D., PG</b> <b>Geotechnical</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>18</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>38</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

John's background encompasses a variety of geotechnical projects and includes project task management, test boring layout, drilling inspection, geotechnical interpretation of subsurface geology, construction inspection, and related project fieldwork.

**Architectural Engineering Services for Lake Katharine Dam Rehabilitation, Liberty Township, Ohio.** *Ohio Department of Natural Resources.* Senior Geologist. Senior geologist responsible for dam assessment site reconnaissance, development of subsurface investigation and laboratory testing and subsurface model development for design. Michael Baker provided architectural engineering services to support the rehabilitation of Lake Katharine Dam within the Lake Katharine State Nature Preserve in Liberty Township, Ohio. The team provided hydrologic and hydraulic analysis, geotechnical analysis, alternatives development, emergency action planning, regulatory permitting construction documents, and construction administration tasks.

**Appalachian Corridor H, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Senior Geologist. Responsible for site reconnaissance and preparation of test boring program for approximately 16 miles of new roadway through Monongahela National Forest. Solicited and administrated 3 geotechnical subcontractor drilling and laboratory testing contracts in excess of 2.6 million dollars; Oversight of drilling inspection, lab requisitions, and property access coordination; over 700 core borings were drilled, approximately 47,000 linear feet of drillings and over 1200 geotechnical laboratory tests were conducted, including over 1000 acid bearing rock tests; agency coordination and permitting, including: WVDEP Erosion and sedimentation control permits; NPDES permits; Monongahela National Forest Special Use Permits; and preparation of geotechnical data and acid base accounting interpretation reports to support design build proposal; and design build support services.

**Partnership 81 - I-81 Preliminary Engineering for P3, Luzerne County, Pennsylvania.** *Pennsylvania Department of Transportation, District 4-0.* Senior Geologist. Responsible for participation in site reconnaissance of proposed interstate improvement project within the Anthracite Coal Region of Pennsylvania and review of geotechnical information and reports prepared for P3 advertisement. Michael Baker is providing preliminary engineering for the reconstruction and realignment of approximately 7.5 miles of I-81 in Luzerne County. The project extends approximately from mile marker 161.2 to mile marker 168.8 and includes the review of alternatives for the reconstruction of the interstate, as well as the interchanges with S.R. 29, S.R. 309, and Highland Park Boulevard. Michael Baker is responsible for the preliminary engineering and environmental clearance documentation to support the development of a public-private partnership project that will include the final design, construction, and financing of the proposed interstate improvements.

**East Palestine Park Rehabilitation, East Palestine, Ohio.** *Norfolk Southern Corporation.* Technical Manager. Responsible for subsurface investigation program for improvement of East Palestine Park Facility. Responsibilities included geotechnical analysis and reporting. Michael Baker developed comprehensive park renderings, conducted engineering studies, obtained permits, developed construction plans, and created project-specific specifications and bid documents for the proposed East Palestine Park Rehabilitation Project in East Palestine, Ohio.

**On-Call Multidiscipline Services, Pittsburgh International Airport (PIT) and, Allegheny County Airport (AGC), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Senior Geologist. Provided construction support for landslide repair. Performed landslide susceptibility survey for timber harvest report and permit. Since 1989, Michael Baker has provided multidiscipline, on-call engineering services to the airport authority, which owns and operates Pittsburgh International Airport and Allegheny County Airport. Michael Baker has acted as an extension of the airport authority's staff, providing the depth of resources and experience of the entire company when called upon. Michael Baker delivered a full range of services on an on-call, as-needed basis, including architecture, civil, structural, mechanical, electrical, plumbing, fire protection, and environmental services.

**EDUCATION** (Degree, Year, Specialization)  
M.S., 1989, Earth Science and Geology, California University of Pennsylvania | B.S., 1985, Geology, Juniata College

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**  
N/A

**REGISTRATION** (Type, Year, State)  
Professional Geologist, Pennsylvania, 1995, PG001420G | OSHA 10-Hour Construction Outreach Training, Pennsylvania, 2018, 36-008-122040 | Certified PennDOT Drilling Inspector, Pennsylvania, 1999, 99-2-029 | TxDOT 14.1.1 Soil Exploration, Pennsylvania | TxDOT 14.2.1 Geotechnical Testing, Pennsylvania | CN On-Track Safety - Contractor, Canada, 2023, UICTORUSPA022383764

# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

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## 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 Init.)

Miles, Mark J., PE  
Geotechnical

YEARS OF AML DESIGN EXPERIENCE:  
10

YEARS OF EXPERIENCE  
YEARS OF AML RELATED DESIGN EXPERIENCE:  
41

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:  
0

### BRIEF EXPLANATION OF RESPONSIBILITIES

Mark has extensive experience in preparation, implementation, management, and review of reconnaissance and final geotechnical investigations for AML, transportation, municipal, industrial, and architectural engineering projects. His background encompasses analysis, design, plan/specification preparation, and personnel supervision for structural, foundation, bridge, and highway projects. **Spring Valley Coal Company No. 1, Indiana Department of Natural Resources, Abandoned Mine Lands (AML) Reclamation Division (IDNR), Bureau County, Illinois.** IDNR, Senior Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications for a slope failure on a previously reclaimed abandoned mine land site. Michael Baker provided services for the reclamation to restabilize the slope failure and determine the likely cause of the failure. Development and implementation of a solution to prevent future failures is also included. Reclamation will include stormwater features to convey runoff and eliminate any pooling water. Services include site reconnaissance, design, permitting, and construction support.

**Roundhouse Dam AML, Indiana Department of Natural Resources, Abandoned Mine Lands (AML) Reclamation Division (IDNR), Know County, Illinois.** IDNR, Senior Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications for the deterioration of a dam embankment of an impoundment. Michael Baker provided services for the reclamation to abate the potentially hazardous conditions from the previously mined site leaving an impoundment with dam. Dam embankment erosion is caused by the lack of traffic barriers and the deterioration of the dam's outlet structure. Guardrails will be installed on both sides of the road along the dam embankment. The dam's outlet structure, including riser/overflow weir and culvert, will be removed and replaced. The spillway located downstream of the outlet control structure will be removed, and the stream restored. The roadway embankment for the lake will be permitted as a small Class III dam through IDNR-OWR. The embankment on the downstream side of the dam, around the culvert, will be backfilled to a more stable slope and covered to promote vegetation and keep runoff from infiltrating and causing erosion. Services include site reconnaissance, design, permitting, and construction support.

**Sanchez Property Remediation, Indiana Department of Natural Resources, Abandoned Mine Lands (AML) Reclamation Division (IDNR), Bureau County, Illinois.** IDNR, Senior Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications for a slide on a previously reclaimed abandoned mine land site. Michael Baker's services include determining the cause of a slide and establishing slope stability as needed around a personal resident's house. The project includes an alternative analysis for slope stability solutions with estimated remediation costs. Also included are drainage control features and sediment and erosion control measures. Services include site reconnaissance, surveying, geotechnical investigation and oversight, slope stability analysis, and cost estimation.

**Morgantown Municipal Airport (MGW) Multi-Discipline On-Call Services 2019-23, Morgantown Municipal Airport (MGW), Morgantown, West Virginia.** City of Morgantown. Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications. Michael Baker provided services as an on-call consultant at Morgantown Municipal Airport. Services included a master plan update, FAA land releases, and an environmental assessment for the Runway 18-26 extension and the Runway 5-23 conversion to a taxiway. In addition, Michael Baker provided engineering services for the development of the east side of the airport for the future construction of corporate hangars and T-hangars.

**Runway Extension and Environmental Assessment, Morgantown Municipal Airport (MGW), Morgantown, West Virginia.** Morgantown Municipal Airport. Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications. Michael Baker developed an environmental assessment and runway extension design for the Morgantown Municipal Airport. Michael Baker also performed a benefit-cost analysis, which included a runway justification study for the runway extension. The environmental assessment was developed in accordance with the National Environmental Policy Act of 1969 (NEPA); Federal Aviation Administration (FAA) Order 1050.F; Environmental Impacts: Policies and Procedures; and FAA Order 5050.4b, NEPA Implementing Instructions for Airport Actions. The runway extension design is being developed in accordance with all applicable FAA advisory circulars. This will extend the runway from 5,200 feet to 6,601 feet, a 1,401-foot extension.

EDUCATION (Degree, Year, Specialization)

B.S., 1983, Civil Engineering, Youngstown State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE) | Association for Bridge Construction and Design

REGISTRATION (Type, Year, State)

Professional Engineer, Ohio, 1997, PE.61453 | Professional Engineer, Pennsylvania, 1989, PE039205E



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## 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 Init.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Miles, Mark J., PE Geotechnical	10	41	0

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Mark has extensive experience in preparation, implementation, management, and review of reconnaissance and final geotechnical investigations for AML, transportation, municipal, industrial, and architectural engineering projects. His background encompasses analysis, design, plan/specification preparation, and personnel supervision for structural, foundation, bridge, and highway projects.

**Spring Valley Coal Company No. 1, Indiana Department of Natural Resources, Abandoned Mine Lands (AML) Reclamation Division (IDNR), Bureau County, Illinois.** IDNR, Senior Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications for a slope failure on a previously reclaimed abandoned mine land site. Michael Baker provided services for the reclamation to restabilize the slope failure and determine the likely cause of the failure. Development and implementation of a solution to prevent future failures is also included. Reclamation will include stormwater features to convey runoff and eliminate any pooling water. Services include site reconnaissance, design, permitting, and construction support.

**Roundhouse Dam AML, Indiana Department of Natural Resources, Abandoned Mine Lands (AML) Reclamation Division (IDNR), Know County, Illinois.** IDNR, Senior Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications for the deterioration of a dam embankment of an impoundment. Michael Baker provided services for the reclamation to abate the potentially hazardous conditions from the previously mined site leaving an impoundment with dam. Dam embankment erosion is caused by the lack of traffic barriers and the deterioration of the dam's outlet structure. Guardrails will be installed on both sides of the road along the dam embankment. The dam's outlet structure, including riser/overflow weir and culvert, will be removed and replaced. The spillway located downstream of the outlet control structure will be removed, and the stream restored. The roadway embankment for the lake will be permitted as a small Class III dam through IDNR-OWR. The embankment on the downstream side of the dam, around the culvert, will be backfilled to a more stable slope and covered to promote vegetation and keep runoff from infiltrating and causing erosion. Services include site reconnaissance, design, permitting, and construction support.

**Sanchez Property Remediation, Indiana Department of Natural Resources, Abandoned Mine Lands (AML) Reclamation Division (IDNR), Bureau County, Illinois.** IDNR, Senior Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications for a slide on a previously reclaimed abandoned mine land site. Michael Baker's services include determining the cause of a slide and establishing slope stability as needed around a personal resident's house. The project includes an alternative analysis for slope stability solutions with estimated remediation costs. Also included are drainage control features and sediment and erosion control measures. Services include site reconnaissance, surveying, geotechnical investigation and oversight, slope stability analysis, and cost estimation.

**Morgantown Municipal Airport (MGW) Multi-Discipline On-Call Services 2019-23, Morgantown Municipal Airport (MGW), Morgantown, West Virginia.** City of Morgantown. Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications. Michael Baker provided services as an on-call consultant at Morgantown Municipal Airport. Services included a master plan update, FAA land releases, and an environmental assessment for the Runway 18-26 extension and the Runway 5-23 conversion to a taxiway. In addition, Michael Baker provided engineering services for the development of the east side of the airport for the future construction of corporate hangars and T-hangars.

**Runway Extension and Environmental Assessment, Morgantown Municipal Airport (MGW), Morgantown, West Virginia.** Morgantown Municipal Airport. Geotechnical Engineer. Responsible for geotechnical oversight and review of designs, plans, and specifications. Michael Baker developed an environmental assessment and runway extension design for the Morgantown Municipal Airport. Michael Baker also performed a benefit-cost analysis, which included a runway justification study for the runway extension. The environmental assessment was developed in accordance with the National Environmental Policy Act of 1969 (NEPA); Federal Aviation Administration (FAA) Order 1050.F; Environmental Impacts: Policies and Procedures; and FAA Order 5050.4b, NEPA Implementing Instructions for Airport Actions. The runway extension design is being developed in accordance with all applicable FAA advisory circulars. This will extend the runway from 5,200 feet to 6,601 feet, a 1,401-foot extension.

**EDUCATION (Degree, Year, Specialization)**  
B.S., 1983, Civil Engineering, Youngstown State University | Graduate Studies, Applied Engineering Mathematics, Carnegie Mellon University

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**  
American Society of Civil Engineers (ASCE) | Association for Bridge Construction and Design

**REGISTRATION (Type, Year, State)**  
Professional Engineer, Ohio, 1997, PE.61453 | Professional Engineer, Pennsylvania, 1989, PE039205E

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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**Attachment A**

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

<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Hlebiccki, William, J., PE</b> <b>Civil Design Plans &amp; Specifications</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>10</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>10</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Bill is a civil engineer with a background in water resources engineering and site development. His experience includes stormwater management design, environmental permitting, site development plans, erosion and sediment control plans, dam H&H calculations, and dam construction inspection.

**Mountain View Portals Mine Reclamation, Preston County, West Virginia.** *West Virginia Department of Environmental Protection.* Civil Associate. Responsibilities include sampling water and acid-base accounting soil sampling, setting up drawings for drawing package, and designing toe of slope channels and collection channels. Michael Baker provided engineering services for the reclamation of the Mountain View Portals abandoned coal mine site. Michael Baker's services included site investigation; field survey; subsurface investigation; water quality and soil sampling and analysis; conceptual, preliminary, and final design; stream restoration; permitting; environmental investigations; bidding-phase support; and construction monitoring.

**Mapping and Design Services for Special Mine Reclamation Permits, Preston County, West Virginia.** *West Virginia Department of Environmental Protection.* Civil Associate. Responsible for drainage calculations for the channels, sampling acid mine drainage, doing a bathymetric test of the ponds onsite, and making some of the sheets for the drawing package. Some of these sheets included building floor plans, site plans, and profiles/cross sections of the site and the ponds. The tools that were used included Hydraflow Hydrographs and AutoCAD Civil 3D, Boat with Sonar, and mapping. Michael Baker is providing engineering and mapping services to meet the requirements of special mine reclamation permits. Michael Baker's services include data collection and analysis, aerial mapping verification, supplemental field and bathymetric pond surveying, bench-scale treatability testing, acid-base accounting testing, engineering design and analysis, preparation of construction plans and specifications and stormwater pollution prevention plans; cost estimates, bidding-phase support; and construction services.

**Summersville Five Block Mine Reclamation, Nicholas County, West Virginia.** *West Virginia Department of Environmental Protection - Office of AML&R.* Civil Associate. Responsibilities included setting up sheets for drawing package, making cross sections and profiles of the site and ponds, revising the site as conceptual changes were made, and storm water calculations, which included setting up drainage areas and designing diversion channels. Tools utilized for this job included AutoCAD Civil 3D and its extension Hydraflow Hydrographs.

**Maurice Jennings Coal Company Site, Preston, West Virginia.** *West Virginia Department of Environmental Protection.* Civil Associate. Responsible for creating and revising drawing for submission to the WVDEP, as well as sampling the acid mine discharge water on the site. The tools used included mapping and AutoCAD Civil 3D. Michael Baker provided engineering services for the special reclamation of Maurice Jennings Coal Company mining permits; S-61-83 and S-53-78. The project area consists of previously reclaimed highwalls, treatment ponds, and several acid mine drainage (AMD) seeps at the site of an abandoned strip mine. Michael Baker's services include aerial mapping, site reconnaissance, permit research and review, surveying, bench-scale treatability studies, AMD conveyance, AMD treatment, preparation of reclamation and treatment plans, stormwater pollution prevention plans, field water quality sampling, technical specifications, bidding-phase support, construction services, and right-of-way support.

**Masteller Coal Company Site, Mineral, West Virginia.** *West Virginia Department of Environmental Protection.* Civil Associate. Responsible for delineating drainage areas, channel design, culvert design, sampling acid mine drainage, specification modifications, and mapping. The tools used for this project included AutoCAD Civil 3D, Hydraflow Hydrographs, and Hydraflow Express. Michael Baker provided engineering services for special reclamation of Masteller Coal Company mining permits; S-10-85 and S-125-82. The project area consists of previously reclaimed highwalls, treatment ponds, and several acid mine drainage (AMD) seeps. Services included site reconnaissance, permit research and review, aerial mapping, surveying, bench-scale treatability studies, AMD conveyance, AMD treatment, preparation of reclamation and treatment plans, stormwater pollution prevention plans, field water quality sampling, technical specifications, bidding-phase support, and construction services.

<b>EDUCATION</b> (Degree, Year, Specialization) B.S.E., 2015, Civil Engineering, Geneva College <b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> Association of State Dam Safety Officials (ASDSO)	<b>REGISTRATION</b> (Type, Year, State) Professional Engineer, Ohio, 2019, E-85156
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**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 Init.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
<b>McHale, Corbin M., EIT</b> <b>Civil Design Plans &amp; Specifications</b>	<b>2</b>	<b>4</b>	<b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Corbin is a civil engineer with experience designing and creating construction documents using Civil 3D and occasionally does permitting. He also is well-versed in creating existing conditions sheets from cloud point data. Additional experience includes testing concrete quality using slump, air, and temperature methods (per ASTM standards), determining specifications using drawing and blueprints, inspected reinforcing steel to ensure alignment with blueprint specs, and tested soil strength using a dynamic cone penetrometer. Corbin also oversaw construction of two housing complexes and an Amazon distribution center, provided edits and dimension CAD blueprints for a military base project, and developed multiple layout concepts.

**Sarah Furnace Refuse Abandoned Mine Reclamation, Madison Township, Pennsylvania.** *Pennsylvania Department of Environmental Protection.* Engineer-in-Training. Responsibilities include assisting the designer of record with the preliminary and final site design, drainage, grading, erosion and sedimentation control, specifications, etc., as well as coordination of the approval process through the Pennsylvania Bureau of Abandoned Mine Reclamation. Michael Baker is creating an internal project management plan, a project-specific quality management plan, a health and safety plan, along with preliminary and final design, and construction procurement services for the Sarah Furnace Refuse project in Madison Township, Pennsylvania. The project consists of five pre-act abandoned mine land features, including two priority 2 dangerous highwalls, one priority 2 dangerous pile embankment, and associated spoil areas.

**AML Site 147 Meridian Road, Indiana.** *Indiana Department of Natural Resources.* Engineer-in-Training. Under the supervision of a licensed engineer, provided site grading, hydrology and hydraulics of the waterways and ponds, and the overall design of the site. Michael Baker provided design services to reclaim approximately 120 acres of abandoned surface coal mine cuts and spoil material. There is one (1) Dangerous Highwall (DH) totaling approximately 500 linear feet. The DH will be backfilled and regraded to reduce the ground slopes to a maximum slope of four horizontal to one vertical (4H:1V). A water impoundment at the base of the DH will be filled, and two new replacement ponds have been created at the low spots of the project area. The area will be regraded to produce a natural topographic surface and replace any wetland resources identified by DNR. Stormwater will be collected and conveyed by central drainage channels to the proposed ponds and then to natural drainage features. Geomorphic reclamation concepts will be applied to the final grading to mimic native topography, with numerous small watershed sub-basins to reduce overland flow and shorten runoff flowpaths.

**Spring Valley Coal Company No. 1, Indiana Department of Natural Resources, Abandoned Mine Lands (AML) Reclamation Division (IDNR), Bureau County, Illinois.** *IDNR,* Engineer-in-Training. Responsible for site grading, stormwater management, erosion and sedimentation control plans, permitting, plan preparation, specifications, and construction cost estimate while under the supervision of a licensed professional engineer. Michael Baker provided services for the reclamation to restabilize the slope failure and determine the likely cause of the failure. Development and implementation of a solution to prevent future failures is also included. Reclamation will include stormwater features to convey runoff and eliminate any pooling water. Services include site reconnaissance, design, permitting, and construction support.

**Morgantown Municipal Airport (MGW) Multi-Discipline On-Call Services 2019-23, Morgantown Municipal Airport (MGW), Morgantown, West Virginia.** *City of Morgantown.* Civil Associate. Responsible for aiding survey in scanning site and collecting topo points. Michael Baker provided services as an on-call consultant at Morgantown Municipal Airport. Services included a master plan update, FAA land releases, and environmental assessment for the Runway 18-26 extension and the Runway 5-23 conversion to a taxiway. In addition, Michael Baker provided engineering services for the development of the east side of the airport for future construction of corporate hangars and T-hangars.

**Morgantown Airport Streetscape, Morgantown Municipal Airport (MGW), Morgantown, West Virginia.** *City of Morgantown.* Civil Associate. Responsible for aiding survey in scanning site and collecting topo points. Michael Baker was tasked to provide design services for a Federal Highways Administration Transportation Alternatives Program Grant under an existing on-call agreement administered by the West Virginia Division of Highways. The project scope included ADA-compliant sidewalk, mixed-use asphalt bicycle trail and pedestrian scale lighting at the Morgantown Municipal Airport (MGW) in Morgantown, West Virginia.

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

B.S.E., 2015, Civil Engineering, Geneva College

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

Association of State Dam Safety Officials (ASDSO)

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

Professional Engineer, Ohio, 2019, E-85156

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<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Gould, Andrew L.</b> <b>Environmental</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>0</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>4</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Andrew serves as a Data Collection Specialist and brings experience in GPS and other remote sensing techniques as well as experience in environmental and NEPA processes. His expertise also includes performing environmental and biological surveys including wetland delineation, stream determination, sediment studies, habitat assessments, cultural resource investigations, endangered species surveys, and GIS analyses. Andrew is also experienced in the NEPA processes, including Section 404 of the Clean Water Act, Section 7 of the Endangered Species Act and Section 106 of the National Historic Preservation Act.

**Appalachian Corridor H Environmental Impact Statement, Appalachian Highlands Region, Elkins, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Environmental Associate. Responsible for the maintenance of ongoing environmental contracts with West Virginia Department of Transportation including endangered species surveys (including mist net surveying for Indiana Bat), stream and wetland survey and mitigation and document production of such projects. Field work included evaluation of Potential Roost (PRT) habitat and summer foraging habitat for the Indiana bat (*Myotis sodalis*) through field-based surveys on Corridor H Forman to Moorefield section, as well as the Bismarck to Forman Section. Participated in mist net live capture to assess regional bat populations in a 2-county region. Performed survey of vegetation type and ground coverage on reclamation areas along the Elkins to Kerens section, as well as the Moorefield to Michael Baker section of Corridor H. Also provided data analysis and summary report. Performed survey of stream sampling, sediment studies and biological barrier determinations. GPS surveying of tributary streams to Slip Hill Mill Run, near Parsons, WV. Michael Baker is preparing the tiered Corridor H Supplemental EIS study for the Appalachian Corridor H, a 100-mile proposed four-lane highway intended to provide access from Interstate 81 in Northwestern Virginia through the rugged, mountainous terrain of West Virginia's Appalachian Highlands Region. This consisted of a corridor-level study evaluation to determine the environmental and engineering constraints existing along 24 potential alternative corridors (Tier 1) and a follow-on Alignment Selection FEIS (Tier 2). Michael Baker is also providing advanced preliminary engineering on the preferred alignment. Following the 1996 Record of Decision, the WVDOT and FHWA were sued in Federal District and Appeals Courts by a coalition of 13 environmental groups. Michael Baker provided lawsuit support for legal counsel during that period. Now that the project is under construction, Michael Baker is providing environmental monitoring and engineering services.

**Apogee Coal Company - Guyan Surface Mine - Mining and Reclamation Plan Revision, Logan County, West Virginia.** *Arch of West Virginia, Inc.* GIT Associate. Responsible for map production and technical assistance. Michael Baker reviewed the client's existing budgeted mine plan and submitted a revision to the permit for Apogee Coal Company's Guyan Surface Mine (WVDEP Permit No. S-5007-01) to develop a revised mining and reclamation plan designed to extend the disturbance limits and match the current budgeted mining sequence.

**Catenary Coal Company - Samples Mine Extension - Valley Fill No. 5 Reauthorization, Boone County, West Virginia.** *Catenary Coal Company.* Environmental Associate. Provided field based technical work for stream delineation and jurisdictional determination. Michael Baker utilized data from the existing SMCRA permit and previously completed studies provided by the client and conducted additional field studies to complete an IBR, AOC calculations, an Individual 404 Permit application, and an Environmental Information Document for the Catenary Coal Company's Samples Mine Extension.

**West Virginia Mining Services Environmental Information Documents, Various Counties, West Virginia.** *Catenary Coal Company.* Environmental Associate. Clerical duties focusing on production of EIS. Michael Baker analyzed and assessed data and studies that were completed for and included in SMCRA mine and individual water quality state 401 certification permit applications for numerous mining projects. From this information, a region-wide impact analysis was prepared to evaluate potential direct, secondary, and cumulative impacts as a result of the Proposed Action and the alternatives under consideration. Following completion of the analyses, publication of the Environmental Information Document, and Public Hearings (when required), the lead agency (U.S. Army Corps of Engineers, Huntington District) determined that the projects, with appropriate mitigation, would have no significant impact on the environment. Michael Baker then assisted the USACE in preparing the Finding of No Significant Impact (FONSI).

<b>EDUCATION</b> (Degree, Year, Specialization) B.A., 1996, Biology and Geography, West Virginia University	<b>REGISTRATION</b> (Type, Year, State) Wetland Delineator Certification Program, West Virginia, 2004   TxDOT 2.6.1 Protected Species Determin. (Habitat), West Virginia, 2012
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<b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> N/A	
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<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Roemer, Crystal L. PWS</b> <b>Environmental</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>4</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>11</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Crystal is an environmental specialist years of experience throughout the eastern United States and Pacific Northwest working with clients of commercial, residential, industrial, land development, infrastructure and transportation, and energy (oil, gas, nuclear, and renewable). Her expertise lies in providing regulatory guidance, permitting, and compliance for projects affecting resources regulated under the Clean Water Act (CWA), Rivers and Harbors Act, NEPA, and other local, state, and federal regulations. In addition to tackling regulatory challenges, Crystal conducts a variety of onsite ecological assessments including wetland and waterway delineations and functional assessments; bat habitat suitability studies; botanical, amphibian, and benthic macroinvertebrate surveys; mitigation and restoration monitoring; agency coordination; invasive species studies; site feasibility reports; Phase I ESAs; ecological studies; environmental compliance monitoring; and surveys and agency coordination for rare, threatened, and endangered species..

**Crabtree Creek AMD Restoration Project, Westmoreland County, Pennsylvania.** *Pennsylvania Department of Environmental Protection.* Environmental Specialist. Responsible for confirmation of previously delineation wetland and stream boundaries, and wetland delineation and stream identification along a rerouted corridor. Michael Baker provided permitting, survey, geotechnical, and design services for the Crabtree Creek AMD Restoration Project in Westmoreland County, Pennsylvania. Work included the design of the collection system of the mine pool AMD discharge and the design of approximately 18,300 feet of pipeline for gravity conveyance of the AMD discharge from the collection point to the passive treatment system site.

**Numerous projects related to coal mining, mine development, and restoration efforts, Pennsylvania.** *Alpha Natural Resources.* Environmental Specialist. Obtained environmental permits, performed wetland delineation and restoration monitoring, stream classification, stream restoration design and restoration monitoring, BPEF surveys, habitat monitoring, stream flow monitoring, endangered species clearance, and landowner services.

**Numerous projects related to coal mining, mine development, and restoration efforts, Pennsylvania.** *Dana Mining Co.* Environmental Specialist. Numerous projects related to coal mining, mine development, and restoration efforts. Obtained environmental permits, performed wetland delineation and restoration monitoring, stream classification, stream restoration and restoration monitoring, BPEF surveys, habitat monitoring, stream flow monitoring, endangered species clearance, and landowner services.

**Stream and Wetland Restoration Design, Greene County, Pennsylvania.** *Environmental Specialist.* Designed stream restoration along Jackson Run (gate-cut and planting plan) and Hob Nob Pearls Caf 2 (streambank stabilization, in-stream structure, and planting plan). Responsible for permit acquisition and plan design. Additionally, oversaw construction of in-stream improvements for several projects.

**Well Plugging Sites, Various Locations, Pennsylvania.** *EQT Production Company.* Environmental Specialist. Decommission and plugging of natural gas wells in poor condition or no longer adequately producing. Performed resource delineation and reporting, Chapter 105 permitting, and access road routing.

**Wheeling Creek Site 25 Dam Rehabilitation, Marshall County, West Virginia.** *Department of Agriculture.* Environmental Scientist. Responsibilities include scope and technical proposal assistance, wetland delineation and waterway identification, macroinvertebrate sampling, general water quality sampling, and subsequent reporting. Michael Baker, as part of the North Wind Resources Partnership JV, is providing engineering services for rehabilitation of the Wheeling Creek Site 25 Dam. There has been significant development downstream of the site since original construction, so the dam has been reclassified as a high-hazard potential structure. The structure will undergo rehabilitation to meet current West Virginia Department of Environmental Protection (WVDEP) Dam Safety criteria and Natural Resources Conservation Service (NRCS) design criteria and standards. Michael Baker is providing hydrologic and hydraulic analysis, structural investigation and design, geotechnical investigation and design, and construction administration.

<b>EDUCATION</b> (Degree, Year, Specialization) B.S., Biology/Environmental Science, Edinboro University of Pennsylvania	
<b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> Association of State Wetland Managers, Inc. (ASWM) Ecological Society of America (ESA) Society of Wetland Scientists (SWS)	<b>REGISTRATION</b> (Type, Year, State) Professional Wetland Scientist, Worldwide, 2020, 3205   Hazardous Waste Operations and Emergency Response, 2019   PEC Safety Certification, 2018, PEC100972836   Norfolk Southern e-RAILSAFE Certification, Pennsylvania, 2024, 1167239   Wetland Delineator Certification Program, 2015   Rosgen, Basic Survey Skills, 2016   PA DCNR Wild Plant Management Permit, Pennsylvania, 2024, 24-781



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<b>NAME &amp; TITLE</b> (Last, First, Middle Init.) <b>Gromley, Ralph W., PLS, PSM</b> <b>Survey • Mapping</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>12</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>42</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

Ralph has extensive national and international experience in the field and office, including topographical, bathometric, boundary, ALTA/ACSM, and 3D surveying. As a program manager licensed in multiple states, he has supervised survey crews and worked on numerous transportation, architecture, aviation, environmental, and oil and gas projects. Ralph's expertise includes boundary retracement, construction services, and knowledge of surveying laws. He is proficient with a range of surveying software packages and instruments, including A-GIS, Trimble, Carlson Software, and Leica products.

**Crabtree Creek AMD Restoration Project, Westmoreland County, Pennsylvania.** *PA Department of Environmental Protection.* Surveyor. As Surveyor, Ralph was responsible for supervision of all survey crews and determination of all affected boundary lines along the route. He performed the final QAQC of all topographic drawings delivered for the project and performed partial boundary surveys of each affected property and establish property boundary lines that will be placed into the project's base mapping to site the proposed collection system on, over, and across the correct parcels. Michael Baker is providing permitting, survey, geotechnical, and design services for the Crabtree Creek AMD Restoration Project in Westmoreland County, Pennsylvania. Scope of work included the design of the collection system of the mine pool AMD discharge and the design of approximately 18,300 feet of pipeline for gravity conveyance of the AMD discharge from the collection point to the passive treatment system site.

**Maurice Jennings Coal Company Site, Preston, West Virginia.** *West Virginia Department of Environmental Protection.* Surveyor. As Surveyor, Ralph was responsible for setting up control points; establishing a construction baseline; identifying key points by location and elevation; identifying key features, stormwater and treatment structures, limits of linear seeps, and exposed refuse; and determining any miscellaneous items relevant to the project. Base mapping included the aerial topography, controls, key points, stormwater and treatment features, sampling points, and all other items picked up during the field surveying. Michael Baker provided engineering services for the special reclamation of Maurice Jennings Coal Company mining permits; S-61- 83 and S-53-78. The project area consisted of previously reclaimed highwalls, treatment ponds, and several acid mine drainage (AMD) seeps at the site of an abandoned strip mine. Michael Baker's services included aerial mapping, site reconnaissance, permit research and review, surveying, bench-scale treatability studies, AMD conveyance, AMD treatment, preparation of reclamation and treatment plans, stormwater pollution prevention plans, field water quality sampling, technical specifications, bidding-phase support, construction services, and right-of-way support.

**Masteller Coal Company Site, Mineral, West Virginia.** *West Virginia Department of Environmental Protection.* Surveyor. As Surveyor, Ralph was responsible for setting up control points; establishing a construction baseline; identifying key points by location and elevation; identifying key features, stormwater and treatment structures, limits of linear seeps, and exposed refuse; and determining any miscellaneous items relevant to the project. Base mapping included the controls, key points, stormwater and treatment features, sampling points, and all other items picked up during the field surveying. Michael Baker provided engineering services for special reclamation of Masteller Coal Company mining permits; S-10-85 and S-125-82. The project area consisted of previously reclaimed highwalls, treatment ponds, and several acid mine drainage (AMD) seeps. Michael Baker's services include site reconnaissance, permit research and review, aerial mapping, surveying, bench-scale treatability studies, AMD conveyance, AMD treatment, preparation of reclamation and treatment plans, stormwater pollution prevention plans, field water quality sampling, technical specifications, bidding-phase support, and construction services.

<b>EDUCATION</b> (Degree, Year, Specialization) High School Diploma <b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> Florida Surveying and Mapping Society (FSMS)   National Society of Professional Surveyors (NSPS)   North Carolina Society of Surveyors   Pennsylvania Society of Land Surveyors (PSLS)   Professional Land Surveyors of Ohio (PLSO)   Tennessee Association of Professional Surveyors (TAPS)   West Virginia Society of Professional Surveyors (WVSPS)	<b>REGISTRATION</b> (Type, Year, State) Professional Surveyor, West Virginia, 2022, 2451   Professional Land Surveyor, Alabama, 2024, PLS50753   Professional Surveyor and Mapper, Florida, 2007, LS 6605   Land Surveyor, Kentucky, 2021, 4408   Professional Land Surveyor, Louisiana, 2022, PLS.0005283   Licensed Surveyor, North Carolina, 2024, L-5623   Professional Surveyor, New Mexico, 2023, 29252   Professional Surveyor, Nevada, 2024, 032708   Professional Surveyor, Idaho, 2025, 3871240   Professional Surveyor, Ohio, 1992, 7431   Professional Land Surveyor, Pennsylvania, 2011, SU075308   Land Surveyor, Tennessee, 2021, 3327   Professional Land Surveyor, Virginia, 2022, 0403003524   Professional Land Surveyor, Wisconsin, 2021, 3240-8   Licensed Surveyor, New Hampshire, 2025, 01144   Amtrak Roadway Worker Protection Certification, 2021   OSHA 10-Hour Construction Outreach Training, 2015
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Attachment A

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

<b>NAME &amp; TITLE</b> (Last, First, Middle Int.) <b>Miller, John A., PLS</b> <b>Survey • Mapping</b>	<b>YEARS OF EXPERIENCE</b>		
	<b>YEARS OF AML DESIGN EXPERIENCE:</b> <b>11</b>	<b>YEARS OF AML RELATED DESIGN EXPERIENCE:</b> <b>53</b>	<b>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</b> <b>0</b>

**BRIEF EXPLANATION OF RESPONSIBILITIES**

John is a seasoned Licensed Surveyor with over 50 years of experience and has managed and directed crews for various survey projects including control surveys for aerial mapping, as-built surveys, property surveys, subdivision and land development surveys, topographic surveys for sewer and water projects, and construction stakeouts. He has managed projects from initial client contact to completion, prepared cost estimates for projects, performed court house research, deed plotting, boundary line resolution, plotted and reduced field data, managed subdivision layout and erosion sedimentation plans, prepared Highway Occupancy Permits and DEP planning modules, prepared agency applications and obtained approvals, attended municipal meetings, prepared legal descriptions, created plans using computer aided drafting, and volume calculations for landfill air space.

**Mapping and Design Services for Special Mine Reclamation Permits, Preston County, West Virginia.** *West Virginia Department of Environmental Protection.* Surveyor. Directed survey crew in the location of mine openings, seeps, monitoring wells and test borings. Verified mapping contours by surveying cross-sections. This survey will be used for engineering design to treat the water from mine drainage. Michael Baker is providing engineering and mapping services to meet the requirements of special mine reclamation permits. Michael Baker's services include data collection and analysis, aerial mapping verification, supplemental field and bathymetric pond surveying, bench-scale treatability testing, acid-base accounting testing, engineering design and analysis, preparation of construction plans and specifications and stormwater pollution prevention plans; cost estimates, bidding-phase support; and construction services.

**Maurice Jennings Coal Company Site, Preston, West Virginia.** *West Virginia Department of Environmental Protection.* Surveyor. Directed survey crew in the location of mine openings, seeps, monitoring wells, treatment facilities and treatment ponds. Verified mapping contours by surveying cross-sections. This survey will be used for engineering design to treat the water from mine drainage. Michael Baker is providing engineering services for the special reclamation of Maurice Jennings Coal Company mining permits; S-61-83 and S-53-78. The project area consists of previously reclaimed highwalls, treatment ponds, and several acid mine drainage (AMD) seeps at the site of an abandoned strip mine. Michael Baker's services include aerial mapping, site reconnaissance, permit research and review, surveying, bench-scale treatability studies, AMD conveyance, AMD treatment, preparation of reclamation and treatment plans, stormwater pollution prevention plans, field water quality sampling, technical specifications, bidding-phase support, construction services, and right-of-way support.

**Masteller Coal Company Site, Mineral, West Virginia.** *West Virginia Department of Environmental Protection.* Surveyor. Directed survey crew in the location of mine openings, seeps, monitoring wells, treatment facilities and treatment ponds. Verified mapping contours by surveying cross-sections. This survey will be used for engineering design to treat the water from mine drainage. Michael Baker is providing engineering services for special reclamation of Masteller Coal Company mining permits; S-10-85 and S-125-82. The project area consists of previously reclaimed highwalls, treatment ponds, and several acid mine drainage (AMD) seeps. Michael Baker's services include site reconnaissance, permit research and review, aerial mapping, surveying, bench-scale treatability studies, AMD conveyance, AMD treatment, preparation of reclamation and treatment plans, stormwater pollution prevention plans, field water quality sampling, technical specifications, bidding-phase support, and construction services.

**Surveying Services for Natural Gas Lines, Washington County and Green County, Pennsylvania.** *Vista Gathering, LLC.* Surveyor. Directed survey crew, stakeout pipeline centerline, stakeout limit of disturbance, survey road crossings, stream crossings and utility locations for permitting and construction. Michael Baker provided surveying services for new natural gas pipelines ranging in length from one mile to nine miles throughout Southwestern Pennsylvania. Services included routing; re-routing; preliminary topographic surveys locating obstructions, property evidence, proposed route as indicated by land agents, woodland, utility, road, stream, and railroad crossings; and tying of the resultant mapping into the state plane coordinate system and vertical datum by the use of OPUS to generate the alignment sheets. Michael Baker also provided construction stake-out surveys, including preliminary centerline for property owner review and constructability walk; final stakeout for construction, including right-of-way and LOD; development of as-builts; and downloading and processing of data for submittal to and upload to client-specific geo-referenced GIS software.

<b>EDUCATION</b> (Degree, Year, Specialization) A.S., 1972, Civil Engineering Technology, Williamsport Area Community College <b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b> N/A	<b>REGISTRATION</b> (Type, Year, State) Professional Land Surveyor, Pennsylvania, 1984, SU033614E   OSHA 10-Hour Construction Outreach Training, 2015
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# WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment A

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

### Hydrology

SEDCAD4 - Storm Routing through Detention Structures, Channel Design and Riprap Sizing.  
TR20 - Project Formulation - Hydrology by SCS  
TR55 - Urban Hydrology for Small Watersheds by SCS  
HEC1 - Flood Hydrograph Package by U.S.A.C.O.E.  
Hydraflow Hydrographs - Storm Routing Model

### Hydraulics - OPEN channel and Culvert

HEC RAS - River Analysis System/Flood Plain Analysis/Water Surface Profile  
HEC2 - Water Surface Profiles by U.S.A.C.O.E.  
HY8 - Culvert Analysis by FHWA  
FLOWMASTER - Channel and Pipeline Hydraulics  
Hydraflow Express - Culverts, Channels, Inlets, and Weir Hydraulics  
WSPRO88 (HY7) - Water surface profiles, open channel, stream crossings by USGS

### PIPELINE HYDRAULICS

WATERCAD - Water Distribution System Modeling  
KYPipe2 - Water Distribution System Modeling  
CYBERNET - Water Distribution System Modeling  
Hydraflow Storm Sewer - Stormwater Conveyance System Modeling  
UNET - pipeline hydraulics

### Environmental

WET 2.0  
HEP  
PAMHEP  
AMDTreat v6.0

### GEOTECHNICAL

Log Draft 5  
gINT V8.3  
FB-Multi-Pier Version 4.16  
FIT Version 8.2  
UniSettle, Version 3  
DARwin 3.1  
Midas GTS  
GROUP Version 6  
FE Flow 5.3  
EMBANK  
SPW 911  
ProSheet  
CRSP  
DRIVEN  
PASTABL6  
RSS  
HELP  
SURFER  
SlopeInc  
PCASE 2.09.01  
CPET-IT  
FOSSA  
MSEW  
DAMBRK



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment A

**CAD DESIGN SOFTWARE**

AutoCAD Civil 3D 2025 - for Earthwork, Survey, Quantity, Calculations, Terrain Modeling, Coordinate Geometry, Site Grading, Utilities & Infrastructure, etc.  
(Enterprise License, 100+ seats)  
Bentley OpenRoad Designer 2024 (Enterprise License, 100+ seats)

**GIS SOFTWARE**

ESRI: Enterprise License Agreement – ArcGIS Pro 3.5 (Enterprise License, 100+ seats)

**CAD DRAFTING SOFTWARE**

AutoCAD, Versions 2025, and prior versions  
Visual Studio Code 2025  
(Enterprise License, 100+ seats)  
MicroStation V8i SS10 (Enterprise License, 100+ seats)

**STRUCTURAL - BRIDGE DESIGN**

MIDAS 2025 v1.1  
STAAD.PRO V25  
MICROSTATION V8i SELECT Series 10  
ASHTOWare BrR 7.61  
COM 624P Version 2  
L-Pile 2025  
FB-Multi-Pier Version 4.16

**SURVEY EQUIPMENT**

**Survey/Global Positioning System (GPS)**

- 16 - Pacific Crest ADL Vantage Pro 2-35 Watt UHF - GPS-RTK Trans/Receiver
- 32 - Leica GS15 GNSS dual frequency receivers
- 5 - Trimble R8 Model 3 GNSS dual frequency receivers
- 13 - Trimble R10 GNSS dual frequency receivers
- 2 - Leica GS 18 GNSS dual frequency receivers

**Pipe/Cable Locators**

- 2 - Radio Detection RD8000 with 10 watt transmitters
- 18 - Optical Ranging Inc. Spar 300 locating system integrated with the Trimble R8 receivers

**Leica Scan Stations**

- 2 - C10 Static Scanner
- 1 - P20 Static Scanner
- 1 - RTC360 Static Scanner
- 1 - BLK2GO Hand Scanner

**Tripods**

64

**Total Stations with Onboard Data Collection**

- 2 - Leica TS 18 total station, fully robotic
- 9 - Leica TS 15P total station, fully robotic
- 1 - Trimble S7 Total Station

**Magnetic Locators**

- 2 - Chicago Steel Tape - FT - 60
- 1 - Schoenstedt
- 6 - Subsurface Instrument - ML-1

**Hydrographic Survey Equipment**

- 1 - HyDrone Bathymetric System

**Field Laptops/Data Collectors**

- 7 - HP Elite Laptop PCs
- 17 - Trimble TSCE 3 Data Collectors
- 16 - Leica CS-15 with Viva Software Data Collectors
- 1 - Trimble TSC7 Data Collector with Robotic Control
- 2 - Leica CS-18 with Infinity Software Data Collectors

**Unmanned Survey Equipment**

- 1 - Fixed-wing Precision Hawk Lancaster
- 1 - Phantom 3
- 1 - Phantom 2 Vision
- 1 - Phantom Inspire

**Levels (Engineering)**

- 11 - Zeiss Ni 2 automatic level with Nedo folding rod
- 1 - Wild N-3 with Nedo folding rod
- 11 - Wild 2000 Series
- 10 - Leica SNA Series
- 6 - Leica NA2 automatic level with 16 ft rod

**GPS Antennas**

- 12 - Leica AT502
- 1 - Leica AT503 w/Chokering and Ray-Dome
- 1 - Leica AT504 w/Chokering and Ray-Dome
- 32 - Leica GS 15
- 5 - Trimble R8 GNSS

**Vehicle / Boats**

- 6 - Fully-equipped Survey Vehicles
- 1 - 14. Ft Utility Trailer
- 1 - Mahindra Utility Vehicle
- 1 - John Boat with Trolling Motor
- 1 - Sonarmite V4.0 DFX Dual Beam Echo Sounder
- 5 - Chevy 2500 Extended Cabs 4x4
- 1 - 2500 Dodge Power Wagon 4x4
- 1 - Hydrone RCV Pontoon Boat/Hydrolite DFX portable survey system
- 1 - Innerspace Tech Model 455 - 200 KHz 8° Transducer

**Survey Software**

- 2 - Leica GIS Data Pro Version 3.0
- 1 - Innerspace Technology Version 6.0 Data Logging with Guidance
- 17 - Leica GeoOffice Version 7.5 and 8.3
- 2 - Trimble Pathfinder Office Version 4.0
- 22 - Listech - Liscad 10.0 (COGO)
- 5 - MicroStation Version V8i and XM
- 2 - Leica SPIDER CORS Controlling Software Version 2.0
- 10 - AutoCAD Civil 3D 2011 and 2014

**MOBILE LIDAR**

**Sensor**

1 - LYNX Mobile Mapper System with 2 Sensors.

**LiDAR Processing WorkStations**

3 - HP E5540 2.53 GHz, 18 GB RAM, 1.4 TB of disc space

**Servers**

1 - HP DL380, 2.1 TB of disc space,

1 - ATMOS R610 DP Server GBE HA TITAN, 120 TB of disc space

**Software**

1 - Optech ALTM Navigation-Planner

1 - Applanix POS PAC

1 - Optech Dashmap

6 - TerraSolid TerraScan

5 - TerraSolid TerraMatch

6 - TerraSolid TerraModeler

1 - TerraSolid Terraphoto

1 - TerraSolid Terraslave

1 - GeoCue Enterprise Server

5 - GeoCue Client

5 - Geocue LiDAR CuePac

1 - Geocue LYNX MMS CuePac

**PHOTOGRAMMETRIC EQUIPMENT**

**Softcopy Stereoplotters**

1 - HP X5670 @ 2.93 GHz Processor X2 (Xeon), 18 GB RAM, 64 BIT Operating System

1 - HP E5645 @ 2.40 GHz Processor X2 (Xeon), 24 GB RAM, 64 BIT Operating System

**Digital Orthophoto**

2 - HP Z600 E5640 @ 2.67 GHz Processor X2, 120 GB RAM, 232 GB Disc Space

**Scanner**

1 - Z/I PhotoScan - Variable Resolution Settings from 7 to 256 microns.

**Server**

1 - Compaq Proliant DL380

Xeon 3 GHz Processor

5.1 GB Memory

1 Terrabyte Disc Storage

1.2 Terrabyte Network Attached Storage

**Software**

1 - MrSID, Geo Express 8.5

1 - ImageStation Automatic Triangulation (ISAT) 6.2

7 - IRAS - C, Version 10.1

1 - Adobe Photo Shop 5, Version 10.0

1 - ERDAS Imagine, Version 2010

2 - ImageStation Base Rectifier-ISBR, Version 6.2

3 - ImageStation DTM Collection-ISDC, Version 6.2

3 - ImageStation Feature Collection (ISFC) 5.3

3 - ImageStation Model Setup (SMS) 5.3

2 - ZI Ortho Pro/Geo Media, Version 6.2

34 - MicroStation - J & 8, Versions V8 and V8i

1 - MRF Mapping Tool Kit for GIS Linework Processing, Version 8.1

1 - Corporate licensed Axiom Productivity Kit including File Fixer and English to Metric Conversion packages



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

**Attachment A**

**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
<b>Beulah Road Wilkins Township</b> Allegheny County, PA	Pennsylvania Department of Environmental Protection (PADEP), Bureau of Abandoned Mine Reclamation, Cambria District, 286 Industrial Park Road, Ebensburg, PA 15931-4119	Michael Baker is responsible for the reclamation of one pre-act abandoned mine land feature consisting of a dangerous slide (DS). Reclamation work will consist of the installation of about 1,100 linear feet of drainage pipe in the backyards of approximately 18 affected property owners and connection to the existing stormwater system near 515 Lucia Drive. The proposed drainage pipe shall be below the foundation elevations. Services include site reconnaissance, design, permitting, and construction support.	\$95,590 (Fee)	60%
<b>Cresson Treatment Plant Vertical Turbine Pumps Design</b> Cambria County, PA	Pennsylvania Department of Environmental Protection (PADEP), Bureau of Abandoned Mine Reclamation, Cambria District, 286 Industrial Park Road, Ebensburg, PA 15931-4119	Michael Baker is providing services for the comprehensive design, permitting, construction support services, and specialized services for Cresson Treatment Plants Vertical Turbine Pumps for the modification of replacing the existing submersible vertical turbine pumps with new vertical line shaft turbine extraction well pumps (VTP). The project includes geotechnical investigation and oversight, surveying, design, and construction support.	\$674,814 (Fee)	15%
<b>Morris Run AMD Treatment Plan</b> Westmoreland County, PA	Susquehanna River Basin Commission, (SRBC), 4423 North Front Street, Harrisburg, PA 17110	Michael Baker is providing a third-party review of the design and construction documents for the Morris Run active treatment plant project, which treats AMD. Services include providing comments to SRBC and PADEP and coordination with the designer of record (DOR).	\$89,899 (Fee)	60%
<b>Mettiki Coal Seep Collector Intercept Design</b> Garrett County, MD	Mettiki Coal, LLC 293 Table Rock Road Oakland, MD 21550	Michael Baker is responsible for the conceptual design of collecting four (4) existing seeps, currently discharging near an existing wetland, and conveying to an area for future treatment after mine closure. Site reconnaissance, evaluation of AMD characterization, AMD collection, conveyance options including stream design, and future treatment options on site are part of the services provided.	\$28,800 (Fee)	95%
<b>Farmington Embankments Reclamation</b> Knox County, IL	Illinois Department of Natural Resources (IDNR), Abandoned Mine Lands Reclamation Division, One Natural Resource Way, Springfield, IL 62702	Michael Baker is providing services to determine any connectivity between the impoundment and seeps through the dangerous embankment and provide solutions to potentially stop the seeps and erosion. Borrow material will be tested for fill suitability and the dangerous embankments will be backfilled to a more stable slope. Sediment and erosion control features will be established. Additionally, the impoundment outlet channel will be analyzed and revised accordingly per a Hydrologic and Hydraulic (H&H) Study. Services include site reconnaissance, design, permitting, and construction support.	\$249,096 (Fee)	35%

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

**Attachment A**

<b>Prairie State AML</b> Putman County, IL	Illinois Department of Natural Resources (IDNR), Abandoned Mine Lands Reclamation Division, One Natural Resource Way, Springfield, IL 62702	Michael Baker is responsible for reclamation design to restabilize the slides in a gob pile, remove rooted vegetation to prevent runoff from seeping into the pile, and improve stormwater runoff collection and conveyance. Additionally, to address the AMD drainage issue in the yard on the west side of S. Milwaukee Street by adding an underdrain. Sediment and erosion control features will be established. The project will incorporate recreational features in the reclamation design for community usage, consisting of a trail. Services include site reconnaissance, design, permitting, and construction support.	\$163,300 (Fee)	90%
<b>Lake Tandem Reclamation</b> Grundty County, IL	Illinois Department of Natural Resources (IDNR), Abandoned Mine Lands Reclamation Division, One Natural Resource Way, Springfield, IL 62702	Services to abate the potentially hazardous conditions on the site from the dangerous highwall locations. The spoil piles on site will be regraded and covered to promote vegetation and keep runoff from infiltrating and producing acid mine drainage (AMD). Borrow material will be tested for fill suitability, and the dangerous embankments will be backfilled to a more stable slope. Sediment and erosion control features will be established. Services include site reconnaissance, design, permitting, and construction support.	\$232,320 (Fee)	35%
<b>Sanchez Property Remediation</b> Knox County, IL	Illinois Department of Natural Resources (IDNR), Abandoned Mine Lands Reclamation Division, One Natural Resource Way, Springfield, IL 62702	Michael Baker services include determining the cause of a slope failure and establishing slope stability as needed around a personal resident's house. The project includes an alternative analysis for slope stability solutions with estimated remediation costs. Also included are drainage control features, and sediment and erosion control measures. Services include site reconnaissance, surveying, geotechnical investigation and oversight, slope stability analysis, and cost estimation.	\$91,280 (Fee)	35%
<b>Roundhouse Dam AML</b> Knox County, IL	Illinois Department of Natural Resources (IDNR), Abandoned Mine Lands Reclamation Division, One Natural Resource Way, Springfield, IL 62702	Services for the reclamation to abate the potentially hazardous conditions from the previously mined site leaving an impoundment with dam. Dam embankment erosion is caused by the lack of traffic barriers and the deterioration of the dam's outlet structure. Guardrails will be installed on both sides of the road along the dam embankment. The dam's outlet structure, including riser/overflow weir and culvert, will be removed and replaced. The spillway located downstream of the outlet control structure will be removed, and the stream restored. The roadway embankment for the lake will be permitted as a small Class III dam through IDNR-OWR. The embankment on the downstream side of the dam, around the culvert, will be backfilled to a more stable slope and covered to promote vegetation and keep runoff from infiltrating and causing erosion. Services include site reconnaissance, design, permitting, and construction support.	\$305,325 (Fee)	35%

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

**Attachment A**

<b>Spring Valley Coal Company No. 1</b> Bureau County, IL	Illinois Department of Natural Resources (IDNR), Abandoned Mine Lands Reclamation Division, One Natural Resource Way, Springfield, IL 62702	Michael Baker is responsible for the reclamation to restabilize the slope failure and determine the likely cause of the failure. Development and implementation of a solution to prevent future failures is also included. Reclamation will include stormwater features to convey runoff and eliminate any pooling water. Services include site reconnaissance, design, permitting, and construction support.	\$168,504 (Fee)	75%
<b>Shield Chapel Cemetery Highwall</b> Fulton County, IL	Illinois Department of Natural Resources (IDNR), Abandoned Mine Lands Reclamation Division, One Natural Resource Way, Springfield, IL 62702	Services includes design to abate the potentially hazardous conditions on the site caused by erosion, steep slopes, and lack of traffic barriers. The northern segment of the highwall, approximately 600 feet of steep slope, will be reclaimed and backfilled to a more stable slope and 600 feet of guardrail will be installed along west side of Shields Chapel Road near the highwall. Drainage control structures will be replaced as necessary including the 18-inch CMP outlet and the failed culvert under the mine haul road. The roadway embankment on the highwall and around both discharge structures will be backfilled to a more stable slope and covered to promote vegetation and keep runoff from infiltrating and causing erosion. Both of the roadway embankments for the lakes will be permitted as small Class III dams through IDNR-OWR. Sediment and erosion control features will be established. Vegetation will be reestablished, and the soil will be treated with fertilizer and ag lime, seed, and mulch. For the embankment seep, a blanket drain will be designed to mitigate the erosion. Services include site reconnaissance, design, permitting, and construction support.	\$435,948 (Fee)	15%
<b>Snakeden Hollow AML</b> Knox County, IL	Illinois Department of Natural Resources (IDNR), Abandoned Mine Lands Reclamation Division, One Natural Resource Way, Springfield, IL 62702	Michael Baker is investigating three areas of concern for this site and addressing two culvert replacement areas. For the impoundment overflow culvert, a more suitable overflow outlet will be constructed to lower the overflow elevation by up to 1 foot, allow higher discharge volumes, and maintain water levels in the impoundment. For the access road culvert at the Snakeden Hollow drainage valley creek, a larger culvert will be installed to handle the increased flows and prevent overflow of the gravel access road during frequent storm events and a segment of the road will be raised to reduce the frequency of flooding. For the eroded slope area, a site reconnaissance will be performed under this phase to assess the dangerous slope. Remediation of the dangerous slope to a more stable slope will be part of a subsequent phase. Disturbed soil will be treated with fertilizer and ag lime, seed, and mulch, and vegetation will be re-established.	\$249,774 (Fee)	15%
<b>TOTAL NUMBER OF PROJECTS: 12</b>		<b>TOTAL ESTIMATED CONSTRUCTION COSTS: \$2,784,650</b>		



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

**Attachment A**

**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 FIRM'S RESPONSIBILITY
None					

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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Attachment A

**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)
<b>Mountain View Portals Mine Reclamation</b> Preston County, WV	West Virginia Department of Environmental Protection (WVDEP) Office of Abandoned Mine Lands & Reclamation 601 57th Street, SE, Charleston, WV 25304	\$169,267 (Fee)	2025	No
<b>Site #147 Meridian Road Highwall Reclamation</b> Pike County, IN	Indiana Department of Natural Resources (INDNR) Division of Reclamation 14619 West State Road 48, Jasonville, IN 47438-7056	\$4,233,866	2025	Yes
<b>Sarah Furnace (Refuse) Reclamation</b> Clarion County, PA	Pennsylvania Department of Environmental Protection (PADEP) Bureau of Abandoned Mine Reclamation, Cambria District 286 Industrial Park Road, Ebensburg, PA 15931-4119	\$66,934 (Fee)	2025	No
<b>Primrose Creek Restoration</b> Bucks County, PA	Pennsylvania Department of Environmental Protection (PADEP) Pottsville District Mining Office 5 West Laurel Boulevard, Pottsville, PA 17901	\$99,900 (Fee)	2024	Yes
<b>Multi-Purpose Machine Gun Range Reconstitution</b> Camp Ravenna Joint Military Training Center, OH	USPFO-OH 2811 W. Dublin-Granville Road, Columbus, OH 43235-2788	\$826,484 (Fee)	2023	Yes
<b>Crabtree Creek AMD Restoration Project</b> , Westmoreland County, PA	Loyalhanna Watershed Association, Inc. (LWA) 6 Old Lincoln Highway, West Ligonier, PA 15658	\$278,674 (Fee)	2021	No

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

**Attachment A**

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
<b>Corridor H – Kearns to Parsons Section 2 (Earthwork)</b> Randolph and Tucker Counties, WV	West Virginia Department of Transportation, Division of Highways 1900 Kanawha Boulevard, East, Charleston, WV 25305-0430	\$175,000,000	2020	Ongoing
<b>Corridor H – Kearns to Parsons Section 1 (Paving)</b> Randolph and Tucker Counties, WV	West Virginia Department of Transportation, Division of Highways 1900 Kanawha Boulevard, East, Charleston, WV 25305-0430	\$32,000,000	2021	Ongoing
<b>Corridor H – Cheat River Bridge (Bridge and Approaches)</b> Tucker County, WV	West Virginia Department of Transportation, Division of Highways 1900 Kanawha Boulevard, East, Charleston, WV 25305-0430	\$148,000,000	2021	Ongoing
<b>Corridor H – Kearns to Parsons Section 3 (Earthwork)</b> Randolph and Tucker Counties, WV	West Virginia Department of Transportation, Division of Highways 1900 Kanawha Boulevard, East, Charleston, WV 25305-0430	\$57,000,000	2022	Ongoing
<b>Mountain View to Gilbert (Earthwork and Paving)</b> Mingo and Logan Counties, WV	West Virginia Department of Transportation, Division of Highways 1900 Kanawha Boulevard, East, Charleston, WV 25305-0430	\$102,000,000	2023	Ongoing
<b>Corridor H – Roaring Run Bridge (Bridge and Approaches)</b> Randolph County, WV	West Virginia Department of Transportation, Division of Highways 1900 Kanawha Boulevard, East, Charleston, WV 25305-0430	\$77,000,000	2024	Ongoing



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

**Attachment A**

**19. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS** (Indicate Phase Of Work For Which Your Firm Was Responsible)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
None					

20. USE THIS SPACE TO PROVIDE ANY ADDITIONAL INFORMATION OR DESCRIPTION OF RESOURCES SUPPORTING YOUR FIRM'S QUALIFICATIONS TO PERFORM WORK FOR THE WEST VIRGINIA AML PROGRAM.

## INTRODUCTION

Michael Baker has been providing abandoned mine lands (AML) reclamation and acid mine drainage (AMD) remediation since the federal government first enacted legislation in the 1940s and 1960s. Our work experience in AML/AMD started with Operation Scarlift in 1968 and we have been providing our engineering services to the West Virginia Department of Environmental Protection (WVDEP) since they initiated its AML Reclamation Program in 1983.

Michael Baker's AML/AMD experience has developed the full skill set for reclamation projects. We also provide services in this area to the WVDEP Office of Special Reclamation (OSR), Pennsylvania Department of Environmental Protection (PADEP), the Ohio Department of Natural Resources (ODNR), the U.S. Office of Surface Mining (OSM), and the United States Army Corp of Engineers (USACE). Our recent experience on numerous AML reclamation and AMD remediation projects for the WVDEP, ODNR, PADEP, IDNR, INDNR, and USACE-Nashville District illustrates our track record for the completion of assignments on time and within budget. Through these experiences, Michael Baker has garnered AML/AMD-specific recognition and developed long-standing business relationships through successful project endeavors based on our ability to provide the following services at a level that meets environmental standards while exceeding client expectations:

- Reclamation of mine refuse piles
- Mine Sealing
- Subsidence Control
- Balanced earthwork and grading
- Strip pit and high wall reclamation
- Drainage conveyance and improvements
- Revegetation of acid bearing ground
- Stream relocation and natural stream channel design
- Wetland assessments and inventory
- Restoration of streams and wetlands
- Landslide identification, investigation, and remediation
- Replacement of water supplies affected by mining
- Efficient Passive and Active AMD treatment systems
- Realty Services
- Environmental Services
- Construction Management and Oversight



Although the projects presented in the Project Experience Matrix of Attachment B of the Consultant Qualification Questionnaire (CQQ) clearly show Michael Baker's AML design, water system design, and related experience, they only hint at the extensive human and material resources that especially qualify our firm for this project. Additionally, some projects may require some unique technical skills beyond a typical AML project, and as shown on our Organization Chart included in Section 13 of this Expression of Interest (EOI), we have the full depth of in-house technical personnel, equipment, and services available to the project, as needed. Additional technical expertise Michael Baker can provide includes:

- Inventorying and characterizing surface water seeps and mine discharge
- Completion of test boring programs aimed at determining spoil
- Evaluating highwall or mine pool conditions to assist with reclamation
- Designing and maintaining a treatment system for treating mine water and seepage
- LiDAR experts for securing mapping of large and altered sites
- Many more other technical service areas

The civil, mining, surveying, mapping, environmental, construction, realty, geotechnical and construction services of Michael Baker are available to respond to the needs of WVDEP immediately. Working from our Moon Township, Pennsylvania office and supported by our Charleston, West Virginia office, Michael Baker can expeditiously provide the full spectrum of services needed in water distribution system design, mine reclamation, and mine drainage abatement operations. The following narrative further describes our experience and provides insight into the special capabilities of Michael Baker.

## FIELD INVESTIGATION & DESIGN SOLUTIONS

At Michael Baker, we believe that sometimes it is about not reinventing the wheel related to field investigation and determining proven design solutions. Our field investigations start with a literature review of any available mapping and historical imaging, such as historic mine maps, old aerial photographs, mined out area maps, landslide susceptibility maps, geologic maps, and soil conservation service reports. After compiling the available information and completing a review of available, existing resources, we then perform a field view of the project site. Our specialized experience and technical ability have taught us that a typical AML project is a puzzle with many pieces. Because of the history of the site, pieces of the puzzle no longer exist. Michael Baker's responsibility is to uncover and connect the various puzzle pieces and utilize this information to develop an efficient, constructible, cost-effective design. We take this responsibility very seriously. The highwall exhibit is an example of present-day aerial photography, historical mine maps, structure contours and field collected data. This has become a valuable tool in the design process.





## DESIGN SYSTEMS - ACTIVE & PASSIVE

Michael Baker's design experience includes both active and passive treatment systems, which are based on the characterization of the AMD site as well as the flows and chemistry of the AMD. To this end, Michael Baker provides AMD sampling services to determine chemical parameters and flow measurements covering high- and low-flow periods that are most important in developing an AMD abatement system. *To date, Michael Baker has evaluated and designed 17 AMD abatement systems, four of which are passive treatment systems that have been recently constructed and are currently in service.* Additionally, Michael Baker has designed ten AMD remediation projects for exclusively for WVDEP that have included open limestone channel (OLC), both anaerobic and aerobic wetlands and settling ponds, limestone sand deposits in the stream, and alkaline leach bed/anoxic limestone drains. Additional Michael Baker AMD abatement designs have been designed for USACE's Baltimore and Nashville Districts.



## GEOTECHNICAL INVESTIGATION & ANALYSIS

In designing AML reclamation and landslide remediation projects, generally three types of soil analysis are needed. These analyses may include:

- Geotechnical analysis (bearing capacity, friction angle, etc.)
- Soil analysis for revegetation potential (pH, Acid Base Accounting, Nutrients)
- Soil analysis for hazardous materials where past dumping may have occurred.

Michael Baker is involved in selecting and collecting the soil samples and analyzing the results of laboratory testing as required for design. Of the 30 most recent AML projects, Michael Baker was involved in soil analysis for 23 projects.



## HYDROLOGY & HYDRAULIC ANALYSIS

Michael Baker has used specialized regional and local hydrologic methods in our 50+ years of combined experience in the AML program and also during our work on local, state, and federal contracts. The team has experts in hydrologic analyses who have extensive experience using a variety of current hydrologic methods, including but not limited to HEC-1, HEC-2, HEC-RAS, HY8, TR20, TR55, FLOWMASTER, HDYRDAFLOW HYDROGRAPHS, KYPIPE 2, CYBERNET, SEDCAD 4, UNET, and DAMBRK. Michael Baker applies these models to services such as stormwater management, culvert analysis, hydrologic and hydraulic studies, storm sewer design, floodplain modeling, channel design, watershed planning, energy dissipation, and waterline extension and distribution. The team is also skilled in calibrating the rainfall runoff models to historical data to justify results used for design. We realize that each watershed is different from the next and that knowledge of local characteristics is important. Expertise in hydrology and hydraulics is essential in any AML/AMD remediation design. Of the 30 most recent AML/AMD projects, 28 projects required hydrology/hydraulics expertise of the AML/AMD design group at Michael Baker.

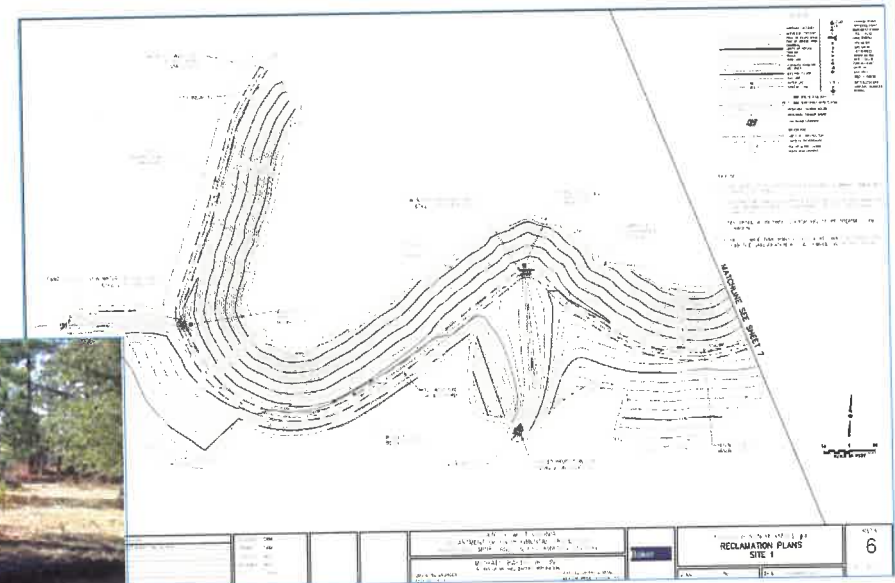


## STORMWATER & EROSION CONTROL MANAGEMENT

Michael Baker applies advancements in stormwater management and erosion/sediment control (ESC) devices to provide an environmentally low impact, cost-effective design for AML and AMD reclamation projects. This approach typically uses sediment tube traps and wattles in lieu of conventional sedimentation basins. These devices filter sediment laden runoff while also reducing hydraulic energy. The devices also provide a higher efficiency of pollutant removal than conventional methods and reduce the project's total disturbed area typically needed compared to conventional sedimentation basins. Additionally, Michael Baker grades the site such that all stormwater runoff is directed towards a channel at the toe of a backfilled highwall, as this approach prevents runoff from exiting the site without the benefit of treatment. This method of grading also keeps all runoff within the limits of disturbance and allows for the stormwater and ESC devices to be placed incrementally as construction progresses. Once the site is vegetated, the controls are removed without further reclamation that typically is needed with sediment traps and ponds. The application of new technologies also results in lower construction cost and reduced project duration while providing a high efficiency of pollutant removal.

## DEVELOPMENT OF BALANCED EARTHWORK & GRADING

Michael Baker typically employs AutoCAD Civil 3D for production of grading plans, profiles, details, cross sections, and balancing cut and fill volumes on AML projects. We have presented a team that includes experts in utilizing AutoCAD Civil3D for grading and evaluating excavation and fill quantities to produce a balanced AML site. AutoCAD Civil 3D is a powerful tool for AML projects allowing the rapid evaluation of grading plan alternatives and calculation of bid item quantities. It is especially useful for projects requiring extensive backfilling and grading, such as required for projects with large refuse and gob piles, highwalls, and other abandoned surface disturbances. If required, Michael Baker is also capable of utilizing Bentley MicroStation for development of plans and earthwork balancing.





## PRELIMINARY DESIGN, FINAL DESIGN, & CONSTRUCTION DOCUMENTS

Michael Baker's expert team of licensed professional engineers are experienced in preparing preliminary design reports, construction plans, specifications, bid tabs, and cost estimates for projects including mine subsidence and grouting, portal sealing, highwall backfilling, AMD treatment, and landslide stabilization. Given our expertise in this area, Michael Baker was tasked to author the design manual for the PADEP Permitting for Surface Facilities related to Coal Mining. The design manual determines the baseline mine permitting guidelines used by PADEP-approved operators. The baseline provides a consistent and methodical process to permit the facilities and ensure the protection of the environment. The trust in Michael Baker by PADEP to take responsibility for this important document is just a sampling of the trust our clients have always placed in Michael Baker. It also demonstrates our knowledge of the mining processes, procedures, and regulations. Our understanding of how mining occurs today and historically yields valuable insight into developing solutions to solve the challenges of special reclamation projects.

## PERMITTING

Every design project must be permitted; however, the role of permitting is often overlooked. Working with WVDEP and the appropriate local, state, and federal agencies, Michael Baker will prepare the required permitting documentation for AML designs to obtain the required permits and authorizations. Michael Baker has an experienced team of professionals that have a diverse background in environmental and regulatory permitting. Permits are prepared in-house by a team that is intimately involved with the design of the project and has working relationships with regulatory agencies. In many instances, our working relationships with the regulatory community have allowed us to fast-track permits applications or permit revisions due to unforeseen field conditions. Our long-standing, working relationships with regulatory agencies have often saved our clients valuable time and funding during design and construction. Beyond the application, Michael Baker provides technical representation to support our client's position during the permit negotiations.

## MOBILE & AERIAL LIDAR CAPABILITIES

Michael Baker's aerial Light Detection and Ranging (LiDAR) service provides an efficient, affordable, and high-definition solution to digital terrain model surface creation and planimetric feature collection. Michael Baker owns and operates the latest in aerial LiDAR and positioning technology for outstanding productivity and survey efficiency. From a single aerial collection session, our aerial LiDAR system offers the ability to accurately capture and classify features that are important to you and the requirements of your project. With up to four range measurements, including first, second, third, and last return-point capture, all project data is accurately captured and available for classification.

Michael Baker LiDAR provides the ability to capture point-cloud terrain data accurately and effectively for orthophoto rectification and planimetric or topographic map compilation. Products can be delivered as bare-earth DEM files, with the option of upgrading to digital terrain models for contour generation. Some of the functions applicable to design projects for which Michael Baker routinely employs the LiDAR System include the following:

- Aerial imagery (vertical) acquisition using digital/film based cameras.
- Aerial Light Detection and Ranging (LiDAR) collection
- Field survey, including photogrammetry control, densification, and accuracy testing
- Unmanned Aerial Surveys (UAS)
- LiDAR data processing
- Map reproduction
- Earthwork Volume Computations and Cost Estimates
- Aerial imagery (oblique photographs)
- Contour Mapping of the Surface and Subsurface
- Perform Fully Analytical Aerial Triangulation (FAAT)
- Stereo compilation of data
- Aerial Mosaic, including Ortho Imagery
- Facilities Layout and Site Design
- Drafting of Plans Profiles and Cross Sections



*Michael Baker owns fixed wing and octocopter drones.*



The LiDAR System and AutoCAD Civil 3D Design software are powerful cost saving tools for abandoned mine land projects since they can evaluate numerous configurations rapidly. They are especially useful for projects requiring extensive waterline plans and profile drawings and can interface with hydraulic models such as WaterCAD for analysis and design. They are also useful for projects requiring extensive backfilling and grading, such as may be required for water tank and pump station sites, and for the grading of refuse banks and gob piles, elimination of highwalls, and reclamation of other abandoned surface disturbances.

## ENVIRONMENTAL & NEPA

The Michael Baker team will utilize a core unit of dedicated staff to conduct each contract assignment. In addition, our team has access to more than **1,000 qualified, multi-disciplined, professional staff** to support all critical project tasks and complete timely environmental assignments.

Our National Environmental Policy Act (NEPA) document capabilities range from Class 1 Actions—Environmental Impact Statements/Record of Decisions (EIS/ROD); Class 2 Actions--Categorical Exclusion Evaluations (CEE); Class 3 Actions—Environmental Assessments/Finding of No Significant Impacts (EA/FONSI) documents. Additionally, our team develops sundry environmental technical basis investigations to support NEPA decisions.

Our team has specialized experience with successfully conducting environmental technical basis reports/investigations, including:

- Air/Noise
- Cultural Resources
- Farmlands
- Natural Resource/Wetland/Streams
- Waterway Permits
- Mitigation Designs and Monitoring
- Threatened and Endangered Species/Section 7 Consultation
- Waste Management
- Phase 1 and 2 ESA
- Public/Agency Coordination

The Michael Baker Environmental/NEPA team is well-equipped to assist with preparation of any phase of project delivery, such as performing engineering design and analysis, geotechnical study and design, H&H studies, stormwater management design, E&S design, utility coordination, and constructability reviews.



## REAL ESTATE SERVICES

The investigation of the AML locations will require the research and delineation of various properties and rights-of-way that have a diverse ownership and jurisdictional control. The Michael Baker team understands the needed methodology for determination of land ownership and easement establishment. Our most recent experience performing these services was on the Corridor H project in close coordination with the WVDOH. Michael Baker performed the process outlined below as well as worked with the DOH in executing standard form agreements with the various property owners. Our team hosted a number of events to gather the impacted landowners in a social setting to review the project and its impact on their properties as well as encourage signing of the agreements at the conclusion of the meetings.

Our process for the Real Estate portion of the project begins with a thorough and detailed review and understanding of the current property ownership and parcel boundaries as it relates to the study area. Once property ownership is understood, Michael Baker will coordinate with WVDEP to provide a draft right of entry request to the property owners for their consideration and signature. After Right of Entry is obtained, work will transition to identifying all required easements, whether temporary or permanent, and assisting in the preparation of all documents and negotiation and acquisition of all easements from the property owners. This will include landowner meetings to discuss the plan for reclamation and events geared towards landowner buy-in to the required easements.

As a prime right-of-way consultant on large-scale rights-of-way projects, the Michael Baker team is intimately familiar with the state, and local requirements, laws, policies, and procedures for negotiations, right-of-way acquisition, and title. We recognize the importance of working within the clients' established guidelines and procedures to achieve timely project delivery during all phases of work. We will coordinate with the WVDEP legal on all easements and other needed documents.

Michael Baker's scope of real estate and right-of-way services includes:

- Submittal of Summary of Findings
- Full back-up of all records research, including deeds, right-of-way plans, plat maps, legal descriptions, and record documents
- Preliminary and final easement plan(s)
- Legal descriptions of all easements, property takes, and other needed instruments for the execution of the reclamation activity
- Fair market determinations for each real estate transaction needed to facilitate the legal control of all property within the project limits by WVDEP
- Court House Research
- Roadway Research, including coordination with WVDOH
- Preparation of Deed Plots
- Property Line Determination within project work limits
- Legal Right-of-Way and Easements: As requested, Michael Baker will prepare legal documentation for temporary and permanent easements. A property exhibit and legal description will be prepared with WV P.S. signature and seal.



## CONSTRUCTION MANAGEMENT SERVICES

Michael Baker provides a wide range of Construction services predominantly in the transportation sector; however, we also have experience in the oversight of commercial building and site construction as well as utilities construction. Our construction services personnel oversee the entire construction process to ensure that projects stay on schedule, within budget, and verify the construction meets the contract and specification requirements. Michael Baker has expertise in managing both design-bid-build and alternative delivery projects.

Construction services include:

- Construction Management
- Constructability Plan Reviews
- Value Engineering
- Claims Management
- Schedule Review & Analysis
- Environmental Compliance
- QA/QC Inspection
- Materials Field Testing
- Materials Lab Testing
- Mobile Materials Lab



**Construction Management** | The Construction Management staff at Michael Baker have a vast amount of experience managing many types of projects. Our construction managers focus on keeping projects on budget, on time, and minimize the potential for change orders and claims. Our managers oversee a group of project inspectors selected from our inspection staff to create a well-rounded project team. The construction managers are responsible for verifying the contractor complies with the contract documents and the project is constructed according to the contract requirements. After the project is finished, the construction manager will ensure all deliverables are met, oversee final inspections, and recommend closeout.

**Schedule Review and Analysis** | The Construction staff at Michael Baker are experienced in reviewing construction schedules to verify that the project has an accurate timeline, and that construction can be performed according to the logic shown in the schedule. The method typically used for schedule analysis is the critical path method (CPM). This method shows the longest order or time for tasks that must be finished to complete the project. The CPM can be used to review the schedule to verify that the project will be completed on time, to the contractor is progressing according to the schedule, and to identify any potential areas of delay. Performing schedule reviews helps identify how to efficiently complete tasks, avoid cost overruns, and proactively address potential risks.

**Environmental Compliance** | Michael Baker has personnel devoted to reviewing ongoing construction activities on a regular basis to ensure compliance with permitted stormwater management and erosion and sediment control plans and other pertinent contract requirements. Our personnel identify and document concerns and work with the contractor to develop alternative measures to resolve any issues.





**Quality Assurance / Quality Control** | Michael Baker employs a group of inspectors with various levels of experience. This allows inspectors to be assigned to projects based on the anticipated needs and level of inspection experience required. This also minimizes unnecessary cost to the project. Our personnel are very experienced in observing construction operations, and maintaining detailed records of work performed daily along with contractor work times, personnel and equipment on site. Performing project inspection daily assists with verifying the work performed meets the quality standards required by the contract documents.

**Materials Testing** | As part of the inspection process, contract specifications typically required field testing of various materials used in construction. Our construction inspection staff are well versed in performing these inspections to the frequency required in the contract documents. Examples of field testing required are Aggregate Materials Soils Compaction, Concrete Materials Testing, and Asphalt Compaction and Materials Testing. Testing and verification that materials meet the contract requirements is critical to ensure the project is constructed as designed.

In addition to field materials inspection services Michael Baker has personnel with many years of experience performing the required lab testing for materials used in construction projects. Our personnel are certified to perform laboratory test procedures on Soils, Aggregate, Concrete, and Asphalt.



## ADDITIONAL SERVICES

Michael Baker also provides the following services for abandoned mine lands reclamation and water system design projects:

- Field Surveying
- Mapping Verification Surveying
- Bathymetric Surveying
- Environmental Evaluations and Assessments
- Data Acquisition and Interpretation
- Construction Management

Since we can furnish all of the engineering related services required for abandoned mine lands reclamation projects "in-house," we can work very efficiently and meet the strictest of schedules. Our efficiency is further heightened by the use of mapping systems and AutoCAD compatible design software to perform computer-assisted mapping, design and drafting.

The experience of the key project personnel includes abandoned and active mine operations. Since we continually serve many of the Country's largest coal and mineral producers as well as industrial clients and state environmental agencies, several personnel listed under Item 13 of the CQQ also have experience in all phases of mining services, from survey, mapping, exploration and reserve analysis through mine planning, permitting, design, construction management, and final closure and reclamation. Since mining and reclamation projects (and WVDEP assignments in particular) comprise a large segment of our business, we work to assure that the mining services provided meet the needs and expectations of our clients and any regulatory agencies involved. Some of the many coal producers we have served are listed below:



*Michael Baker owns a fleet of UAS equipment to assist with reclamation projects.*

- Consolidation Coal Company
- Alpha Natural Resources
- Westmoreland Coal Company
- U.S. Steel Mining Co., Inc.
- Emerald Coal Resources LP
- Cumberland Coal Resources LP
- Exxon Research and Engineering Company

## SUMMARY

As a large, diverse engineering firm, Michael Baker has facilities, staffing, and resources available to properly conduct water distribution extension, abandoned mine land reclamation, and AMD remediation projects. The use of in-house capabilities can speed project completion and facilitate tracking of progress. The in-house capabilities include:

- Data Processing
- Interactive Graphics and AutoCAD
- Word Processing
- Printing and Reproduction

Michael Baker's qualifications to provide engineering services for waterline and abandoned mine land projects, we offer the following response to the evaluation factors:

### 1. BIDDER EXPERIENCE

- **Extensive experience in each area.** Items 17 and 18 of the CQQ describe various projects for which we provided these services during the last five years. Projects and technical services listed under Item 12 of the CQQ describe competencies typical of various projects for which we provided our services to WVDEP.
- **Strong capabilities in each area.** Item 13 of the CQQ lists our personnel by discipline. Our large multi-disciplinary staff is experienced in all aspects of Special Reclamation and AML reclamation; civil, environmental, mining, geotechnical and reclamation engineering applied to surface and underground coal mining; land restoration; stream and water restoration; and land use and natural resources planning. The attached "Project Experience Matrix" shows various projects performed for various clients and also shows primary participants responsible for these projects.

### 2. QUALIFICATION OF PERSONNEL *with respect to background, general experience, and experience relative to the requirements of the project:*

- Michael Baker's key personnel are registered professional engineers experienced in a broad variety of water distribution and similar projects, as indicated Item 13 of the CQQ.
- Our Project Professionals are veterans of many similar projects including past WVDEP projects.
- Our Program Principal, Mr. Steven Savich, and our proposed Program Manager for this assignment, Mr. William Neider, both demonstrate the desire and commitment that WVDEP deserves and expects for this assignment.
- Our commitment is demonstrated by the fact that Michael Baker has conducted a comprehensive investigation of the project site and has been involved with the interpretation of the mining history leading to the current day site conditions.

**3. CORPORATE SPECIALIZED EXPERIENCE AND DEMONSTRATED ABILITIES**

- Michael Baker's specialized experience with AML related problems is summarized in the abandoned mine lands reclamation and Related Projects Matrix in Attachment B. Our work has addressed the full spectrum of reclamation projects.
- The firm has a wealth of experience on similar projects, as evidenced by projects performed for mining and mineral companies. Moreover, Michael Baker's transportation, site development, and water resource projects in the tri-state area often address special reclamation problems.
- Michael Baker applies advancements in sediment control devices to provide an environmentally low impact, cost-effective design for reclamation projects. This approach uses sediment tube traps and wattles in lieu of the conventional sedimentation ponds. These devices filter sediment laden runoff through them while also reducing hydraulic energy. They also provide a higher efficiency of pollutant removal than conventional methods and reduce the project's total disturbed area typically needed when conventional sedimentation basins are utilized. Michael Baker grades the site such that all stormwater runoff is directed towards a channel at the toe of the backfilled highwall which does not allow any runoff exiting the site without the benefit of treatment. This keeps all runoff within the limits of disturbance and allows for the erosion control devices to be placed incrementally as construction progresses. Once the site is vegetated, the controls are removed without any further reclamation that typically occurs with traps and ponds. The application of these new technologies also results in lower construction cost and project duration while providing a high efficiency of pollutant removal.
- Our specialized experience and technical ability have taught us that a typical AML project is a puzzle with many pieces. Because of the past history of the site, pieces of the puzzle no longer exist. Michael Baker's responsibility is to uncover and connect the various puzzle pieces and utilize this information to develop an efficient, constructible, and cost-effective design. We take this responsibility very seriously.

**Michael Baker thanks WVDEP for the opportunity to submit our qualifications package for this EOI and we look forward to working with WVDEP soon.**

**21. THE FOREGOING IS A STATEMENT OF FACTS.**

Signature: William D. Neider

Title: AML Program Manager and Director of Land Development

Date: August 20, 2025

Printed Name: William D. Neider, PE



## PROJECT EXPERIENCE REQUIREMENTS

Projects			PROJECT EXPERIENCE REQUIREMENTS																																										
			* Exp. Basis C = Corp    P = Personnel	** Additional Info provided In Sections (s)	Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal / Shaft Closure	Hydrologic / Hydraulic Design /Eval.	Remaining Evaluation	Mine / Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Eval. Mitigation / Replacement	Construction Inspection / Management	Water Treatment	Active/Passive Water Treatment Systems	Equipment / Structure Removal	Stream Restoration	Geotechnical / Stability	M   P																								
			Steven Savich, PE – Program & Quality Principal	William Nelder, PE – Program Manager	John Lasko, PG – Geotechnical & Surface Investigations	Jim Pritchard, PE – Project Manager	Brian Baker, PE – Project Manager	Patrick Fogarty, P.E., P.S. – Project Manager	Michael LaMont – Grading & Earthwork	Matthew Perdue – Grading & Earthwork	Shiela Hicks – Real Estate	Jeffrey Cragle – Real Estate	Jeffrey Frye, PE – Treatment	Wesley Sipe, PE – Treatment	Andrew Hollem, PE – Hydrology / Stormwater / E&S / NPDES	Nicolas Slater, PE – Hydrology / Stormwater / E&S / NPDES	Jason Boyd, PE – Construction Services	Jennifer Belcher, PE – Construction Services	Mark Miles, PE – Geotechnical	Joe Hebliczki, PE – Civil Design   Plans   Specs	Corbin McHale, EIT – Civil Design   Plans   Specs	Andrew Gould – Environmental	Crystal Roemer, PWS – Environmental	Ralph Gromley, PLS – Surveying / Mapping	John Miller, PLS – Surveying / Mapping																				
1.	Sarah Furnace OSM 16(0030)102.1 (PADEP)	C&P	17	✓			✓				✓	✓					✓	✓		✓	✓																								
2.	Cresson AMD OSM 11(2724)103.1 (PADEP)	C&P	15		✓		✓					✓				✓	✓				✓	✓																							
3.	Beulah Road OSM 02(1454)102.1 (PADEP)	C&P	15	✓			✓						✓								✓	✓																							
4.	Site 147 Meridian Highwall (INDNR)	C&P	17	✓			✓						✓						✓		✓	✓																							
5.	Site 1848 Graham Valley South (INDNR)	C&P		✓			✓						✓					✓			✓	✓																							
6.	Farmington Embankments AML (IDNR)	C&P	15	✓			✓						✓	✓					✓																										
7.	Prairie State AML (IDNR)	C&P	15	✓			✓			✓			✓							✓																									
8.	Lake Tandem AML (IDNR)	C&P	15	✓			✓						✓							✓																									
9.	Novy Road AML (IDNR)	C&P		✓			✓						✓							✓																									

## PROJECT EXPERIENCE REQUIREMENTS

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19. Nine County Roads Water Supply Feasibility Study, Preston County, WV (WVDEP)	C&P					✓					✓	✓						✓			✓																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											



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28. Dennison S.R. 800 AML Reclamation (ODNR)	C&P			✓	✓	✓					✓	✓				✓		✓					✓																									
29. Ebenezer Run Highwall #9 (WVDEP)	C&P	17	✓			✓					✓	✓							✓	✓	✓																✓											
30. Emoryville Mine Complex AML/AMD (WVDEP)	C&P		✓	✓	✓	✓					✓	✓		✓	✓			✓				✓																										
31. F&M Coal Company S-1044-87 & S-57-84	C&P		✓		✓	✓					✓	✓		✓	✓						✓		✓																			✓	✓					
32. Fairmont Five Subsidence (WVDEP)	C&P					✓			✓		✓			✓								✓																										
33. Flemington Portals & Drainage No. 2 AML/AMD (WVDEP)	C&P			✓	✓	✓	✓					✓			✓	✓			✓			✓																										
34. Fort Gordon, Georgia (USACE)	C&P			✓				✓				✓					✓																															
35. Hardy Coal Bond Forfeiture (ODNR)	C&P			✓				✓				✓					✓						✓																									
36. Jed-Havaco Reclamation (WVDEP)	C&P			✓				✓		✓		✓					✓	✓	✓																													

## PROJECT EXPERIENCE REQUIREMENTS

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## PROJECT EXPERIENCE REQUIREMENTS

Projects	* Exp. Basis C = Corp P = Personnel	** Additional Info provided In Sections (s)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal / Shaft Closure	Hydrologic / Hydraulic Design / Eval.	Remaining Evaluation	Mine / Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Eval. Mitigation / Replacement	Construction Inspection / Management	Water Treatment	Active/Passive Water Treatment Systems	Equipment / Structure Removal	Stream Restoration	Geotechnical / Stability	Steven Savich, PE – Program & Quality Principal		William Nelder, PE – Program Manager		John Lasko, PG – Geotechnical & Surface Investigations		Jim Pritchard, PE – Project Manager		Brian Baker, PE – Project Manager		Patrick Fogarty, P.E., P.S. – Project Manager		Michael LaMont – Grading & Earthwork		Matthew Perdue – Grading & Earthwork		Shiela Hicks – Real Estate		Jeffrey Cragle – Real Estate		Jeffrey Frye, PE – Treatment		Wesley Sipe, PE – Treatment		Andrew Hollen, PE – Hydrology / Stormwater / E&S / NPDES		Nicolas Slater, PE – Hydrology / Stormwater / E&S / NPDES		Jason Boyd, PE – Construction Services		Jennifer Belcher, PE – Construction Services		Mark Miles, PE – Geotechnical		Joe Hlebiczki, PE – Civil Design   Plans   Specs		Corbin McHale, ET – Civil Design   Plans   Specs		Andrew Gould – Environmental		Crystal Roemer, PWS – Environmental		Ralph Gromley, PLS – Surveying / Mapping		John Miller, PLS – Surveying / Mapping																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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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: Michael Baker International, Inc.  
Tax ID #: 25-1228638  
Address: 500 Grant Street, Suite 5400  
City, State, & Zip: Pittsburgh, PA 15219  
Phone Number: 724-495-4225  
Email Address: wneider@mbakerintl.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, William D. Neider, 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.

August 20, 2025  
Date

Will D. Neider  
Signature

Associate Vice President  
Title



## AVS OFT Report - 8/14/2025 5:27:26 PM

All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265497) Angela Adam		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268352) Ryan Adams		3/31/2025	
(265326) Michael Baker International Inc	Senior Vice President		(265336) John Alberghini		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265356) Christopher Alberts		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268353) Iyad Alrabadi		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268356) Mariben Anderson		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265500) Michael Anderson		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265501) Allison Andrews		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(250603) Michael Arens		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268361) Timothy Armbrecht		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265503) Alan Ashimine		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265357) Mohamed Amin Bagha		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(250604) Jeffrey A Baker		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265359) William Balentine		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(265337) Steven Barber		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265505) Douglas Barker		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268363) Joseph Bartorelli		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265360) Richard Beck		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268365) Scot Becker		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265362) Jill Bell		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265506) John Bellas		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265507) Jessica Belowich		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268366) Nicole Bennati		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265509) Joseph Bennett		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268368) Wendy Berrill		3/31/2025	





## AVS OFT Report - 8/14/2025 5:27:26 PM

All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President	Senior	(268370) Balram Bheodari		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268371) Kashfia Billah		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268374) Douglas Blank		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265510) Joseph Blickenderfer		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265368) Paula Boardman		7/1/2015	
(265326) Michael Baker International Inc	Director		(265368) Paula Boardman		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265513) Richard Bonelli		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265369) Gilberto Bosque		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265514) Justin Bouscher		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265370) Kirsten Bowen		7/1/2015	
(265326) Michael Baker International Inc	Director		(265370) Kirsten Bowen		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265371) Albert Bowman		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265372) Elizabeth Bradford		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265526) Christina Brickner		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265373) Jeff Broadwater		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265374) Bradley Brown		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265375) Michael Bruz		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268375) Robert Brzezona		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265527) Pemille Buch-Pederson		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265528) Todd Buckner		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268380) Jay Burton		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265529) Michael Butters		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265376) Mary Anne Buvens		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265530) Ashley Buzzeo		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268384) Anthony Cabrera		3/31/2025	



## AVS OFT Report - 8/14/2025 5:27:26 PM

All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265377) Genevieve Cahill		7/1/2015	
(265326) Michael Baker International Inc	Chairman of the Board		(265328) Thomas J Campbell		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265531) Christopher Caputi		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268386) Lisa Carbonara		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268382) Edward Carpenter		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268392) Guy Carpino		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265532) Paul Carson		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265533) Karin Cartwright		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265378) Joseph Catalano		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265534) Sarah Cathcart		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265379) Ronald Chaffin		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268393) Mujahid Chandoo		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268394) Yongxian Chen		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265536) Richard Chisolm		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265537) Derek Christianson		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265538) Fatma Ciloglu		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268396) Benjamin Clopper		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265539) Dayle Coburn		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265540) Kenneth Collins		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265541) Christopher Conrad		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268397) Audrey A Corrado		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268398) Kenneth Corti		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268399) Miles Costanza		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268400) Maria Cruickshank		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268406) Christopher Cummings		3/31/2025	



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265542) Jeremy Curtis		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265380) Joseph Danyo		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268408) Scott Davis		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265381) David Dawson		7/1/2015	
(265326) Michael Baker International Inc	Director		(265381) David Dawson		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265543) Gracia de la Pena		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265382) Kristy DeChicchis		7/1/2015	
(265326) Michael Baker International Inc	Director		(265382) Kristy DeChicchis		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265383) Scott Delesdernier		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265384) Alison Detar		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(250616) John C Dietrick		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268410) Carlos Dizon		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265545) Jamie Dodd		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268412) Kevin Doyle		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(250567) Beth A Drylie		7/1/2015	
(265326) Michael Baker International Inc	Executive Vice President		(268415) Pankaj Duggal		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268416) James Duguay		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265385) Patricia Dunaway		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265547) Craig Duppsstadt		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265386) Ralph Eberhardt		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268417) Francis Eells		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265558) David Fekete		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265560) John Craig Fennell		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265561) Kathryn Field		7/1/2015	
(265326) Michael Baker International Inc	Executive Vice President		(268422) Daniel Filer		3/31/2025	





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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President	Associate	(268419) Anthony Fitzpatrick		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265564) Mary Flynn		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268423) Christopher Fowlds		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268425) Eversley Francois		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268427) Aarion Franklin		3/31/2025	
(265326) Michael Baker International Inc	Senior Vice President		(250569) Eric D Frary		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265567) James A Frazier		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265568) David Frey		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265388) Kurt Fritz		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265571) Sylvester Frye		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265572) Laurence Gale		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268430) Vahid Ganji		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268432) Claudia Garay		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265390) Joseph Gardiner		7/1/2015	
(265326) Michael Baker International Inc	Director		(265390) Joseph Gardiner		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268433) Louis Gies		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268434) Paul Gilkey		3/31/2025	
(265326) Michael Baker International Inc	Senior Vice President		(265340) Andrew Gluck		7/1/2015	
(265326) Michael Baker International Inc	Director		(265340) Andrew Gluck		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268436) Robin Godshall		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268438) Alicia Gonzalez		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268441) Calvin Gordon		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265391) Steven Gravlin		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(250618) Dale L Gray		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268444) Christopher Grollnek		3/31/2025	



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265392) Lydia Grose		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268445) Amilyn Haas		3/31/2025	
(265326) Michael Baker International Inc	Senior Vice President		(265342) Magdy Hagag		7/1/2015	
(265326) Michael Baker International Inc	Director		(265342) Magdy Hagag		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(250644) Russell E Hall		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268447) James Hall		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265394) Mary Jo Hamman		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268448) Samuel Hand		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265573) Robert Hans		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265575) Kyle Harper		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265395) John Harris		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265395) John Harris		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265576) Diana Hartman		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268450) Dean Hartman		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265396) Dwain Hathaway		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(265343) Todd Heino		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265580) Gary Heisler		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268452) Octavio Hernandez		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268454) Michael Hnat		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268456) Elizabeth Hoekenga		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268355) Anthony Hoffman		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268358) Charles Hogeboom		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265582) William Hoose		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265398) Leslie Hopper		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268359) Susan Howard		3/31/2025	



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**All OFT's where the selected entity is listed as an entity or related entity**

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265584) Angela Howell		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265585) Chadwick Huffines		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(268369) Charles Hunley		3/31/2025	
(265326) Michael Baker International Inc	Senior Vice President		(265344) John Hurley		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(265344) John Hurley		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268372) Hamid Ikram		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265586) Kevin James		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268376) Cristin Johnson		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265591) Don Joiner		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265591) Don Joiner		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265592) Philip Jutko		7/1/2015	
(265326) Michael Baker International Inc	Director		(265592) Philip Jutko		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265593) Chadi Karam		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265594) Nagnath Kasbekar		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265595) James Katsafanas		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268379) Lindsay Kaufmann		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268381) Martin Kazmierczak		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268385) Nathan Kebede		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268389) Stephen Keifer		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265596) Fareeha Kibriya		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265402) Mark Kistler		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268390) Anna Klenke		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268388) Matthew Klyszeiko		3/31/2025	
(265326) Michael Baker International Inc	Executive Vice President		(265332) James Koch		7/1/2015	
(265326) Michael Baker International Inc	President	Federal Programs and Services	(265332) James Koch		7/1/2015	





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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265597) William Kontess		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(265345) Brian Kozy		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265403) Kyle Kramer		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265598) William Kristoff		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265599) Elizabeth Krouse		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268401) Frederick Krumbhaar		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265600) Michael Kuchera		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265404) Kevin Kugler		7/1/2015	
(265326) Michael Baker International Inc	Director		(265404) Kevin Kugler		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268403) Devendra Kumar		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268405) Jeffrey Kupko		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265601) Edward La Guardiafalbe		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268409) Denise Laferte		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268413) Sofia Landis		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265405) Patrick Leach		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268414) Jane Lehman		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265406) David Liebgold		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265407) Trudi Lim		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265408) Michael Lincheck		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265409) Timothy Little		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265409) Timothy Little		7/1/2015	
(265326) Michael Baker International Inc	Assistant Secretary		(265588) Angela Logan		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265410) Stephanie Long		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265603) Bradley Losey		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265604) Marc Luiken		7/1/2015	



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	President		(265329) Brian A Lutes		7/1/2015	
(265326) Michael Baker International Inc	Chief Executive Officer		(265329) Brian A Lutes		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268418) Ryan Lynch		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265605) Rebecca Lyne		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268420) Christopher MacDougall		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268428) Donald MacKay		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268435) Lance Mackie		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268437) Andrew MacNeill		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265606) Gary Madey		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265608) Joseph Maiorana		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268440) Saminur Majumder		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268453) George Manning		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268457) Kerry Martin		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268459) Keely Matson		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265609) Jeffrey May		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(265348) Brian May		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268462) Kermit Maynard		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265610) Tammy McAllister		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268464) William McBride Jr		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265611) Jeffrey McClure		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(268465) Stephen McGaughey		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265612) Paul McGuinness		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268467) Connor McKenzie		3/31/2025	
(265326) Michael Baker International Inc	Assistant Secretary		(268469) Denise McNamara		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268473) Meghan McPhee		3/31/2025	



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268475) David Meissen		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265416) Saul Mellman		7/1/2015	
(265326) Michael Baker International Inc	Director		(265416) Saul Mellman		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268476) Chad Menge		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(250576) John Mentz		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265614) David Mercier		7/1/2015	
(265327) Michael Baker International Holdco Corp	Owner		(265326) Michael Baker International Inc	100%	7/1/2015	
(265326) Michael Baker International Inc	Name Change		(250526) Michael Baker Jr Inc		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265460) Regan Miller		7/1/2015	
(265326) Michael Baker International Inc	Director		(265460) Regan Miller		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268479) Brad Miller		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268481) Louis Mittelman		3/31/2025	
(265326) Michael Baker International Inc	Senior Vice President		(265349) Thomas Montgomery		7/1/2015	
(265326) Michael Baker International Inc	Director		(265349) Thomas Montgomery		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265419) Aaron Morris		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268482) Gerald Morris		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(250630) Lois M Muller		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(250555) Frederick M Muncy		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265463) Robert Murphy		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268484) James Murphy		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265464) Robert Myers		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265420) John Nagle		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265466) Muthukumar Narayanaswamy		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268485) Daniel Natale		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268486) Rajendra Navalurkar		3/31/2025	





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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268487) William Neider		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265467) Mark J Nellas		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265467) Mark J Nellas		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268488) Kevin Nicholl		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265469) Angela Nocera		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265469) Angela Nocera		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265422) Brian Oliver		7/1/2015	
(265326) Michael Baker International Inc	Executive Vice President		(268489) Eric Ostfeld		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268490) Russell Ozmer		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265424) Loma Parkins		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265471) Pawel Paszczuk		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265471) Pawel Paszczuk		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268491) Snehalkumar Patel		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265425) Brian Peiritsch		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265472) Janine Pelekoudas		7/1/2015	
(265326) Michael Baker International Inc	Director		(265472) Janine Pelekoudas		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265426) Douglas Peterson		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265427) Sarat Peyyeti		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268492) Edward Phillips		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate Vice President	(268493) Aaron Pickering		3/31/2025	
(265326) Michael Baker International Inc	Senior Vice President		(268483) Mitchell Pinkston		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265429) Robert Pitchford		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268478) Shawn Plichta		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265474) Kristen Podnar		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265474) Kristen Podnar		7/1/2015	



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265430) Jeffrey Polenske		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265475) Matthew Ponce		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265475) Matthew Ponce		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265476) William Pope		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265476) William Pope		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265431) James Porter		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265477) Hans Probst		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265477) Hans Probst		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265433) Philip Quillin		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268480) Patricia Quinn		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268477) Pedro Quintanilla		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265479) Rachael Richter		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265479) Rachael Richter		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268474) Jennifer Riddle		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265436) Alfonso Riera		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265480) Jeffrey Roberts		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265480) Jeffrey Roberts		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(268471) John Robinson		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268472) Scott Rodseth		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265438) Joseph Romano		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268470) Jacqueline Rooke		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268468) Stephen Ross		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(265484) Steven Ross		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265486) Amy Ross		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265486) Amy Ross		7/1/2015	



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265489) Oscar Rucker		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265489) Oscar Rucker		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268466) William Ruhsam Jr		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265440) Jade Rung		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265441) Brian Russell		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268463) Jason Sadowski		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265442) Joseph Salvadori		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268461) Nancy Santoro		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265443) Steven Savich		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265498) Curtis Schaffner		7/1/2015	
(265326) Michael Baker International Inc	General Counsel		(265498) Curtis Schaffner		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265502) Jon Schelkoph		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265502) Jon Schelkoph		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268460) Richard Schoedel		3/24/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268455) Brian Searle		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265445) Mohiuddin Shaik		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268449) Bradley Shelton		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268443) Jonathan Shimko		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268446) Savanmaly Shovlin		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265446) Raymond Shrift		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(250638) Victor J Siaurusaitis		7/1/2015	
(265326) Michael Baker International Inc	Assistant Secretary		(268442) Maher Sidani		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268439) Andrew Sidor		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265504) Sonja Simpson		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265447) Peter Sipes		7/1/2015	





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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265508) Steven Slocum		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265508) Steven Slocum		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268431) Andrew Smart		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265511) Gregory Smay		7/1/2015	
(265326) Michael Baker International Inc	Director		(265511) Gregory Smay		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268451) David Smith		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265515) Paul Snead		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265515) Paul Snead		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265516) Joseph Snyder		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265516) Joseph Snyder		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268429) Andrew Sorensen		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268426) Kevin Spangler		3/31/2025	
(265326) Michael Baker International Inc	Manager		(265517) Eric Spangler		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265517) Eric Spangler		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268421) Leland Spicer		3/31/2025	
(265326) Michael Baker International Inc	Director		(265518) Joshua Sprowls		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265518) Joshua Sprowls		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265519) Christopher Stanford		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265519) Christopher Stanford		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265520) Robert Stark		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265520) Robert Stark		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268424) Michael Starr		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265448) Michael Stengel		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265521) David Stephens		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265522) Matthew Stewart		7/1/2015	



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Manager		(265522) Matthew Stewart		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268411) Jason Stith		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268407) Josh Stone		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265449) Aaron Stover		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265450) Lori Stump		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Executive	(268402) Juliane Swatt		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268404) Steven Swygert		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268395) Wieslawa Szumanski		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268391) Andre Szumylo		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265451) Christopher Tagert		7/1/2015	
(265326) Michael Baker International Inc	Executive Vice President		(265334) John Tedder		7/1/2015	
(265326) Michael Baker International Inc	Secretary		(265334) John Tedder		7/1/2015	
(265326) Michael Baker International Inc	Corporate Officer	Chief Legal Officer	(265334) John Tedder		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265523) Leigh Tewinkle		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265454) Timothy Thiele		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265455) Andrew Thomas		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265455) Andrew Thomas		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265524) Daniel Thornhill		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268383) Scott Thornsberry		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265525) Julie Thurman		7/1/2015	
(265326) Michael Baker International Inc	Director		(265525) Julie Thurman		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268378) Ryan Thurmes		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265456) Helen Tison		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265549) Eddie Torres		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265549) Eddie Torres		7/1/2015	



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President	Associate	(268373) Todd Trautz		3/31/2024	
(265326) Michael Baker International Inc	Vice President		(250596) Donald M Treude		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265457) John Tricini		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265551) Troy Truax		7/1/2015	
(265326) Michael Baker International Inc	Director		(265551) Troy Truax		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265458) Lawrence Truman		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268377) Lynn Truskie		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265481) David Tudryn		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265481) David Tudryn		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265552) Colleen Turner		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265552) Colleen Turner		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(265352) Michael Tylman		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265352) Michael Tylman		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265553) Spencer Uminski		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265553) Spencer Uminski		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(265353) Nicolaas Veraart		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265554) Marc Violet		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265554) Marc Violet		7/1/2015	
(265326) Michael Baker International Inc	Senior Vice President		(265354) Derek Vogelsang		7/1/2015	
(265326) Michael Baker International Inc	Assistant Secretary		(265589) Terri A Vojnovich		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265555) Martin Wade		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265555) Martin Wade		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265556) Lori Wade		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265556) Lori Wade		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268364) Daniel Walden		3/31/2025	





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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265482) Philip Walker		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268360) Adam Walkowiak		3/31/2025	
(265326) Michael Baker International Inc	Senior Vice President		(265355) John Walsh		7/1/2015	
(265326) Michael Baker International Inc	Director		(265355) John Walsh		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265557) Lance Wanamaker		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265557) Lance Wanamaker		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265559) Scott Wardle		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265559) Scott Wardle		7/1/2015	
(265326) Michael Baker International Inc	Assistant Secretary		(265590) Pam Warfield		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265562) Albert Warot		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265562) Albert Warot		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265483) James Waters		7/1/2015	
(265326) Michael Baker International Inc	Corporate Officer	Chief Information Security Officer	(265483) James Waters		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265485) Quintin Watkins		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265487) Kirk Weaver		7/1/2015	
(265326) Michael Baker International Inc	Director		(265487) Kirk Weaver		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265488) Laura Weis		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265490) Craig Wenger		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268357) Kevin Western		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(268351) Karen White		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265566) Nicole Whitehead		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265566) Nicole Whitehead		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(268354) Christy Whittaker		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(250643) Cory A Wilder		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265570) Dawn Wilson		7/1/2015	



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**All OFT's where the selected entity is listed as an entity or related entity**

**Entity Selected (265326) Michael Baker International Inc**

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Manager		(265570) Dawn Wilson		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265574) Kenneth Wing		7/1/2015	
(265326) Michael Baker International Inc	Manager		(265574) Kenneth Wing		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265491) Stephen Wragg		7/1/2015	
(265326) Michael Baker International Inc	General Counsel		(265578) Katherine Wrenshall		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265578) Katherine Wrenshall		7/1/2015	
(265326) Michael Baker International Inc	Vice President	Associate	(268350) Michael Yaffe		3/31/2025	
(265326) Michael Baker International Inc	Vice President	Associate	(268349) Michael Yang		3/31/2025	
(265326) Michael Baker International Inc	Vice President		(265493) James Yeager		7/1/2015	
(265326) Michael Baker International Inc	Executive Vice President		(265335) Kenton Zinn		7/1/2015	
(265326) Michael Baker International Inc	President	Infrastructure	(265335) Kenton Zinn		7/1/2015	
(265326) Michael Baker International Inc	Vice President		(265496) Cannelo Acevedo		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Executive Vice President		(265330) Leanna Anderson		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Corporate Officer	Chief Communications and Marketing Officer	(265330) Leanna Anderson		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265363) Jeffrey Bergsten		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Director		(265363) Jeffrey Bergsten		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265366) Tanya Bilezikjian		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265367) Jason Bivens		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265512) Mark Bodily		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Senior Vice President		(265338) Jeffrey Clevenger		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265546) Leanne Doran		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Senior Vice President		(265339) Malcolm Dougherty		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Director		(265339) Malcolm Dougherty		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Assistant Secretary		(265339) Malcolm Dougherty		7/1/2015	12/31/2023



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### All OFT's where the selected entity is listed as an entity or related entity

#### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265387) U S Grant Ervin		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Director		(265387) U S Grant Ervin		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265563) Gavin Fitzsimmons		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265565) LouAnn Fornataro		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265397) James Haughey		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Manager		(265397) James Haughey		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265579) Jared Heiner		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265581) J Brad Homan		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265399) Steven Huff		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265401) Jeremy Jurick		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Director		(265401) Jeremy Jurick		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Senior Vice President		(265346) Beth Larkin		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265607) Sirish Madichetti		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265415) Alicia McConnell		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Director		(265415) Alicia McConnell		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265613) Carlos Mendoza		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Executive Vice President		(265333) Penny Mercadante		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Corporate Officer	Chief Human Resources Officer Associate	(265333) Penny Mercadante		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265459) Michael Meyer		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	General Counsel	Assistant	(265459) Michael Meyer		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265461) Peter Minegar		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Manager		(265461) Peter Minegar		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265418) Kenneth Mobley		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265462) Bryan Mouser		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Director		(265462) Bryan Mouser		7/1/2015	12/31/2023





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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265465) Sunita Nadella		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265468) Tracy Nelson		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Manager		(265468) Tracy Nelson		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265421) Randal Nelson		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265470) Terry Ogle		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Manager		(265470) Terry Ogle		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265428) Adam Phillips		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(250635) R Scott Quast		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265478) Brandon Reyes		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Manager		(265478) Brandon Reyes		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265435) Brian Rider		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Senior Vice President		(265351) Darren Riegler		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Assistant Secretary		(265351) Darren Riegler		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265484) Steven Ross		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Manager		(265484) Steven Ross		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265492) Nabaz Saieed		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Manager		(265492) Nabaz Saieed		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265495) Momcilo Savovic		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Manager		(265495) Momcilo Savovic		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265444) Nasser Seyedmadani		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265452) John Tanner III		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265453) Scott Taylor		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265523) Leigh Tewinkle		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Director		(265523) Leigh Tewinkle		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265550) John Trapp		7/1/2015	12/31/2023



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Manager		(265550) John Trapp		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265494) Darcie Zeliesko		7/1/2015	12/31/2023
(265326) Michael Baker International Inc	Vice President		(265587) Carl V Jeffreys		7/1/2015	2/7/2024
(265326) Michael Baker International Inc	Vice President		(265434) David Reel		7/1/2015	2/19/2024
(265326) Michael Baker International Inc	Senior Vice President		(265341) George Guszcza		7/1/2015	3/1/2024
(265326) Michael Baker International Inc	Director		(265341) George Guszcza		7/1/2015	3/1/2024
(265326) Michael Baker International Inc	Senior Vice President		(265350) Carlo Morgano		7/1/2015	3/15/2024
(265326) Michael Baker International Inc	Corporate Officer	Chief Information Officer	(265350) Carlo Morgano		7/1/2015	3/15/2024
(265326) Michael Baker International Inc	Vice President		(265423) Kevin Owens		7/1/2015	3/29/2024
(265326) Michael Baker International Inc	Senior Vice President		(250561) Thomas J Zagorski		7/1/2015	4/3/2024
(265326) Michael Baker International Inc	Vice President		(265473) Joseph Pirilla		7/1/2015	4/6/2024
(265326) Michael Baker International Inc	Director		(265473) Joseph Pirilla		7/1/2015	4/6/2024
(265326) Michael Baker International Inc	Vice President		(265583) Michele Horak		7/1/2015	6/10/2024
(265326) Michael Baker International Inc	Vice President		(265437) Thomas Ritz		7/1/2015	6/24/2024
(265326) Michael Baker International Inc	Vice President		(265577) Max Heckman		7/1/2015	6/28/2024
(265326) Michael Baker International Inc	Vice President		(265361) James Bell		7/1/2015	8/29/2024
(265326) Michael Baker International Inc	Vice President		(265432) Stephen Pouliot		7/1/2015	9/10/2024
(265326) Michael Baker International Inc	Vice President		(265569) Christopher Friel		7/1/2015	9/13/2024
(265326) Michael Baker International Inc	Vice President		(265393) Matthew Guard		7/1/2015	9/25/2024
(265326) Michael Baker International Inc	Senior Vice President		(265347) David Leach		7/1/2015	10/11/2024
(265326) Michael Baker International Inc	Vice President		(265400) Keith Jones		7/1/2015	11/1/2024
(265326) Michael Baker International Inc	Chief Financial Officer		(265400) Keith Jones		7/1/2015	11/1/2024
(265326) Michael Baker International Inc	Vice President		(265417) Bradley Mielke		7/1/2015	11/1/2024
(265326) Michael Baker International Inc	Vice President		(265544) Collin Dey		7/1/2015	12/31/2024
(265326) Michael Baker International Inc	Vice President		(265439) Jerome Ruddins		7/1/2015	1/24/2025



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All OFT's where the selected entity is listed as an entity or related entity

### Entity Selected (265326) Michael Baker International Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(265326) Michael Baker International Inc	Vice President		(265602) William Lindenbaum		7/1/2015	2/5/2025
(265326) Michael Baker International Inc	Vice President		(265499) Kevin Anderson		7/1/2015	2/28/2025
(265326) Michael Baker International Inc	Executive Vice President		(265331) Daniel Kieny		7/1/2015	3/20/2025
(265326) Michael Baker International Inc	President	Consulting and Technology Solutions	(265331) Daniel Kieny		7/1/2015	3/20/2025
(265326) Michael Baker International Inc	Vice President		(265389) Amanda Furr		7/1/2015	4/11/2025
(265326) Michael Baker International Inc	Vice President		(265358) Robert Balanti		7/1/2015	4/14/2025
(265326) Michael Baker International Inc	Vice President		(265535) Jessica Chambers		7/1/2015	4/18/2025
(265326) Michael Baker International Inc	Vice President		(265548) Sannad Farjo		7/1/2015	5/2/2025