



West Virginia Purchasing Division

2019 Washington Street, East
Charleston, WV 25305
Telephone: 304-558-2306
General Fax: 304-558-6026
Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header @ 1

List View

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

Procurement Folder: 979944

Procurement Type: Central Purchase Order

Vendor ID: 000000160331

Legal Name: MICHAEL BAKER INTERNATIONAL INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 01/20/2022

Response Time: 13:13

Responded By User ID: michaelbaker

First Name: Leigh

Last Name: TeWinkle

Email: dmprocurement@datam:

Phone: 9499736615

SO Doc Code: CEOI

SO Dept: 0313

SO Doc ID: DEP2200000007

Published Date: 1/18/22

Close Date: 1/20/22

Close Time: 13:30

Status: Closed

Solicitation Description: ADDENDUM 2 - EOI - Elkins Landfill

Total of Header Attachments: 1

Total of All Attachments: 1



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

**State of West Virginia
 Solicitation Response**

Proc Folder: 979944
Solicitation Description: ADDENDUM 2 - EOI - Elkins Landfill
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2022-01-20 13:30	SR 0313 ESR01202200000004384	1

VENDOR
 000000160331
 MICHAEL BAKER INTERNATIONAL INC

Solicitation Number: CEOI 0313 DEP2200000007
Total Bid: 0
Response Date: 2022-01-20
Response Time: 13:13:50
Comments:

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

Vendor Signature X **FEIN#** **DATE**

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI: Elkins Landfill Remaining QA/QC and Final Report	0.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

QA/QC necessary to complete the final activities of the closure cap construction including oversight of the installation of concrete tanker truck turnaround pad; installation, testing and startup of the communication and flow metering system; final project walk-through for punch list items; and preparation of the Final Completion Report



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State of West Virginia
 Centralized Expression of Interest
 Architect/Engr

Proc Folder: 979944			Reason for Modification:
Doc Description: EO: Elkins Landfill Remaining QA/QC and Final Report			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2021-12-22	2022-01-19 13:30	CEOI 0313 DEP2200000007	1

BID RECEIVING LOCATION

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

VENDOR

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, P.E.

Vendor Contact Phone: (724) 495-4225 **Extension:**

FOR INFORMATION CONTACT THE BUYER

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

Vendor Signature X  **FEIN#** 25-1228638 **DATE** 1/20/2022

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ADDITIONAL INFORMATION

engineering services for the project titled Elkins Landfill Closure Project Closeout Quality Assurance/Quality Control and Final Report Completion.

This EOI will provide Quality Assurance and Quality Control (QA/QC) necessary to complete the final activities of the closure construction. These activities include oversight of the installation of concrete tanker truck turnaround pad; installation, testing and startup of the communication and flow metering system; final project walk-through for punch list items; and preparation of the Final Completion Report for submission to the WVDEP Solid Waste Permitting Unit. The Final Report must be reviewed and approved by the DWWM's Solid Waste Permitting Unit before the Elkins Landfill can be certified closed under 33CSR1 and Post Closure Care status can begin. The Final Report must include a complete description of construction activities, daily logs, photos, shipping manifests, all QA/QC monitoring reports and lab documentation, and a complete set of drawings illustrating all construction details prepared in AutoCAD and saved in PDF format per the attached specifications and terms and conditions.

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION LANDFILL CLOSURE ASSISTANCE PROGRAM 601 57TH ST SE CHARLESTON WV 25304 US	STATE OF WEST VIRGINIA JOBSITE - SEE SPECIFICATIONS No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI: Elkins Landfill Remaining QA/QC and Final Report	0.00000	EA

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:

QA/QC necessary to complete the final activities of the closure cap construction including oversight of the installation of concrete tanker truck turnaround pad; installation, testing and startup of the communication and flow metering system; final project walk-through for punch list items; and preparation of the Final Completion Report

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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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
 Architect/Engr

Proc Folder: 979944		Reason for Modification:	
Doc Description: ADDENDUM 1 - EOI - Elkins Landfill		ADDENDUM 1	
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-01-18	2022-01-19 13:30	CEOI 0313 DEP2200000007	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: 000000160331

Vendor Name : Michael Baker International, Inc.

Address : 100

Street : Airside Drive

City : Moon Township

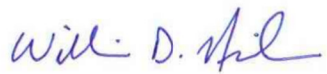
State : Pennsylvania **Country :** United States **Zip :** 15108

Principal Contact : William D. Neider, P.E.

Vendor Contact Phone: (724) 495-4225 **Extension:**

FOR INFORMATION CONTACT THE BUYER

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

Vendor Signature X  **FEIN#** 25-1228638 **DATE** 1/20/2022

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

ADDITIONAL INFORMATION

ADDENDUM 1 ISSUED TO PUBLISH A COPY OF VENDOR QUESTIONS WITH RESPONSES.

NO OTHER CHANGES

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION LANDFILL CLOSURE ASSISTANCE PROGRAM 601 57TH ST SE CHARLESTON WV 25304 US	STATE OF WEST VIRGINIA JOBSITE - SEE SPECIFICATIONS No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue
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81100000			

Extended Description:

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SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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	Document Phase	Document Description	Page
DEP220000007	Final	ADDENDUM 1 - EOI - Elkins Landfill	3

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
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State of West Virginia
 Centralized Expression of Interest
 Architect/Engr

Proc Folder: 979944		Reason for Modification:	
Doc Description: ADDENDUM 2 - EOI - Elkins Landfill		ADDENDUM 2	
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-01-18	2022-01-20 13:30	CEOI 0313 DEP2200000007	3

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
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FOR INFORMATION CONTACT THE BUYER

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 (304) 558-2306
 joseph.e.hageriii@wv.gov

Vendor Signature X  **FEIN#** 25-1228638 **DATE** 1/20/2022

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ADDITIONAL INFORMATION

ADDENDUM 2 ISSUED FOR THE FOLLOWING REASONS:

1. TO PUBLISH A COPY OF ADDITIONAL DRAWINGS RELATED TO THE RESPONSES TO VENDOR QUESTION IN ADDENDUM ONE.
2. TO EXTEND THE BID CLOSING DATE TO THURSDAY, JANUARY 20, 2022, AT 1:30 P.M.

NO OTHER CHANGES

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION LANDFILL CLOSURE ASSISTANCE PROGRAM 601 57TH ST SE CHARLESTON WV 25304 US	STATE OF WEST VIRGINIA JOBSITE - SEE SPECIFICATIONS No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI: Elkins Landfill Remaining QA/QC and Final Report	0.00000	EA

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81100000			

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SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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	Document Phase	Document Description	Page
DEP220000007	Final	ADDENDUM 2 - EOI - Elkins Landfill	3

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.



Digitally signed by Christopher A. Garaventa
DN: c=US, o=Chris Garaventa@mbakerintl.com, ou=Michael Baker International Inc., ou=Civil and Environmental Services,
ou=Christopher A. Garaventa
Reason: I agree to the terms defined by the placement of my signature on this document
Date: 2022.02.11 13:44:05-0500

(Name, Title)

Christopher A. Garaventa, Civil Engineer

(Printed Name and Title)

100 Airside Drive, Moon Township, PA 15108

(Address)

814-421-2634

(Phone Number) / (Fax Number)

chris.garaventa@mbakerintl.com

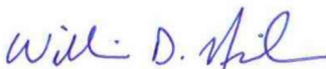
(email address)

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

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.

Michael Baker International Inc.

(Company)



(Authorized Signature) (Representative Name, Title)

William Neider Senior Associate

(Printed Name and Title of Authorized Representative)

1/18/2022

(Date)

724-495-4225

(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DEP2200000007

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

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

Addendum Numbers Received:

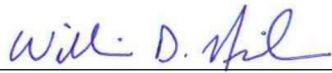
(Check the box next to each addendum received)

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

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

Michael Baker International Inc.

Company



Authorized Signature

1/20/22

Date

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

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
LANDFILL CLOSURE ASSISTANCE PROGRAM
CONSULTANT QUALIFICATION QUESTIONNAIRE**

Attachment "A"

PROJECT NAME CEOI 0313 DEP 220000007 Elkins Landfill Closure Project Closeout Quality Assurance/Quality Control and Final Report Completion		DATE (DAY, MONTH, YEAR) January 18, 2022	25-1228638
1. FIRM NAME Michael Baker International, Inc. (Michael Baker)		2. HOME OFFICE BUSINESS ADDRESS 100 Airside Drive, Airside Business Park Moon Township, Pennsylvania 15108	3. FEIN 25-1228638
4. HOME OFFICE TELEPHONE 412.269.6300	5. TYPE OWNERSHIP Individual <u>Corporation</u> Partnership Joint-Venture		6. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES <u>NO</u>
7. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM William D. Neider, PE, Senior Associate – 724.495.4225		8. TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE 22	

TECHNICAL INFORMATION

9. IS YOUR FIRM FAMILIAR WITH 33 CSR 1 SOLID WASTE MANAGEMENT RULE AND 33 CSR 40 COMMERCIAL SOLID WASTE LANDFILL CLOSURE ASSISTANCE PROGRAM? Provide Name of LCAP PROJECTS YOUR FIRM HAS PREVIOUSLY WORKED ON.
NO

10. IS YOUR FIRM EXPERIENCED IN THE OVERSIGHT AND INSPECTION OF SOLID WASTE LANDFILL CLOSURE CONSTRUCTION? IF YES, PROVIDE DESCRIPTION AND NUMBER OF PROJECTS, NON-LCAP AND LCAP.
YES Description and Number of Projects:

Michael Baker has been assisting state and federal agencies with Solid Waste Facility Design for years. Michael Baker can provide services to clients and agencies alike with permitting, design, and QA/QC. 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 a solid waste project. These professionals combine diverse experience in:

• Mining	• Water Treatment	• Stormwater Management	• Surveying
• Geotechnical	• Water Line Design & Supply	• E&S Control	• Mapping
• Geology	• Grading	• Sustainable Design	• Field Reconnaissance
• Hydraulics & Hydrology	• Earthwork Balance	• Hazardous Waste Remediation	• Project Management
• Groundwater		• Material Handling Plans	• Quality Control

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
LANDFILL CLOSURE ASSISTANCE PROGRAM
CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment "A"

U. S. Steel Gary Works (Non-LCAP): Michael Baker as the owner's representative performed the role of Construction Manager and Design Engineer. By providing full-time oversight during construction, Michael Baker was able to monitor quality of the material installation, keep the project on schedule by assisting in any quality assurance changes necessitated by field conditions, review and approved subcontractor qualifications and construction materials.

Michael Baker prepared bid documents, cost estimates, construction drawings and detailed construction specifications. During construction Michael Baker personnel maintained daily field reports of earthwork and geosynthetic to document quality control and activities of the Contractors. Work was observed to verify that it complies with the design plans and specifications. Contractor and material submittals provided were reviewed for conformance with the requirements of the CQAP and Technical Specifications. Michael Baker personnel observed quality assurance testing on-site or collection of samples for off-site laboratory testing. Michael Baker reviewed quality assurance testing, as necessary, to ensure a high degree of certainty that the physical/mechanical requirements of the liner construction components excavation, berms, on-site roads, liner system, leak detection/collection systems and storm water management system meet or exceed the specifications.

PA Department of Environmental Protection Currie Landfill Site (Non-LCAP): The 32-acre Currie Landfill site in Millcreek Township was used for the disposal of waste, including foundry sands, slag, and other types of construction and residential waste between 1950 and the 1960s. It was divided into three parcels. A drive-in theater corporation owned two of the parcels, totaling 24 acres, and a package-delivery service owned the third parcel, which was approximately 8 acres. The west branch of Cascade Creek flows through the eastern part of the site.

The two primary objectives of the site investigation were to characterize the nature and extent of the hazardous substances and contaminants on the site or that may have migrated from the site; and to assess potential impacts to human health and the environment. The investigation identified four compounds that were above the state's medium specific concentrations in groundwater and that have migrated into the sediments of West Branch Cascade Creek; tetrachloroethylene (PCE), trichloroethene (TCE), total 1,2-dichloroethene (1,2-DCE), and vinyl chloride.

Michael Baker prepared the final remedial design for the Currie Landfill site, consisting of consolidation of waste from Parcel A into Parcel B to facilitate commercial development of Parcel A; elimination of exposed waste along West Branch Cascade Creek, and grading of the remaining consolidated waste surface to accommodate construction of a two-foot-thick soil cap with a marker layer to indicate exposure of the underlying waste by excavation or erosion. Michael Baker designed the cap so that its area could be used to install public recreational fields.

During construction, Michael Baker personnel were onsite serving as the clients/owner's representative. Michael Baker was responsible for monitoring all aspects of construction, completion of daily field reports, materials and quantity tracking, processing and coordination of field changes and general construction oversight. Michael Baker served as the Engineer of Record for the project and prepared a final Construction Certification report that documented all construction activities.

U. S. Steel MIDC Site (Non-LCAP): Michael Baker served as the site design engineer, permitting lead, and construction manager responsible for the remediation of coal tar, closure of landfills and a hazardous waste surface impoundment containing coal tar and other waste materials. Michael Baker was responsible for investigation, treatability studies, design, cost estimating, construction management, certification report, and project meetings with PADEP Hazardous Sites Cleanup Program (HSCP) personnel. Additional work included wetlands delineations, permits, meetings with Township officials, and weekly project meetings with the client, PADEP, and subcontractors. Michael Baker continues to actively provide long-term O&M support at the site.

Michael Baker provided design and construction oversight for an innovative "floating cap" as part of the closure of an impoundment containing 40,000 CY of coal tar and waste that utilized cellular concrete, a geosynthetic barrier and drainage layers, and a lightweight expanded shale protective cover. Recognizing the uncertainty of waste volumes of subsurface soil contamination to be consolidated, Michael Baker developed plans to vertically expand a landfill that included minimum and maximum grades for disposal of impacted soils and solidified coal tar, which prevented construction phase re-design and eliminated potential construction delays. To complete the work in one construction season, Michael Baker served as site manager for three construction

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
LANDFILL CLOSURE ASSISTANCE PROGRAM
CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment "A"

teams, managed drilling and laboratory subcontractors, and served as the Geosynthetic CQA contractor. To close out the project, Michael Baker compiled as-built documentation, material certifications, CQC/CQA documentation and daily field reports into a Construction Certification Report.

Buckeye Reclamation Landfill Superfund Site, Belmont County, Ohio (Non-LCAP): Project consisted of a 37-acre solid waste landfill cap, 30-acre existing cap repair, and sediment solidification of a 10-acre impoundment. Responsibilities included project construction inspection, daily contractor contact, design field changes, construction oversight, quality assurance sampling and testing, and review of change orders, contractor invoices, and submittals. Other responsibilities included developing an initial grading plan, details, writing the Construction Certification Report, and directing optimization of sediment solidification reagents, depending on sediment type, consistency, and moisture content.

11. IS YOUR FIRM EXPERIENCED IN WRITING CERTIFICATION REPORTS FOR QUALITY CONTROL ACTIVITIES

YES Description and Number of Reports Written:

Michael Baker has been assisting clients for decades with certification reports and QA/QC oversight. Some highlighted projects can be found above in question 10.

- Buckeye Reclamation Landfill Superfund Site
- U.S. Steel Gary Works
- U.S. Steel MIDC Site
- PADEP Currie Landfill

12. IS YOUR FIRM FAMILIAR WITH 33 CSR 1 SOLID WASTE MANAGEMENT RULE AND 33 CSR 40 COMMERCIAL SOLID WASTE LANDFILL CLOSURE ASSISTANCE PROGRAM? PROVIDE NAME OF LCAP PROJECTS YOUR FIRM HAS PREVIOUSLY WORKED ON.

Refer to Question 10 Above

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
LANDFILL CLOSURE ASSISTANCE PROGRAM
CONSULTANT QUALIFICATION QUESTIONNAIRE**

Attachment "A"

13. PERSONAL HISTORY STATEMENT OF PRINCIPAL RESPONSIBLE FOR QA/QC OF LANDFILL CLOSURE CONSTRUCTION. (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF SOLID WASTE DESIGN EXPERIENCE:	YEARS OF SOLID WASTE RELATED DESIGN EXPERIENCE:
Joseph M. Blickenderfer P.E. Project and Department Manager	25	25

Brief Explanation of Responsibilities

Mr. Blickenderfer's broad technical experience has allowed him to successfully manage projects in support of clients and projects across multiple industries. His experience is primarily focused on land development, environmental, and energy projects. He has a strong background in site engineering design, Federal, State, and Local environmental permitting, and construction. His experience includes utility design, site development, impoundment and liner design, landfill and closure design and permitting, storm and sanitary sewer design, erosion and sedimentation control plans, land surveying, construction inspection of structural construction and earthworks, and geological surveys.

Currie Landfill Site, Erie, Pennsylvania. Pennsylvania Department of Environmental Protection. Project Manager. Michael Baker developed a preliminary and final design for capping the impoundment and covering the cap and surrounding walls to control leaking and erosion, and to eliminate waste exposure. Responsibilities included site layout design, contour grading plans, erosion and sedimentation control, stormwater management, and construction specifications for an abandoned municipal waste landfill to ultimately allow industrial and recreational development on the property. Michael Baker provided environmental and engineering services for the remediation of the Currie Landfill. Michael Baker's services included program management, site investigations; soil, sediment, and groundwater sampling; development of risk assessments and a conceptual site model; site survey and mapping; geotechnical and geologic investigations; hydrologic and hydraulic analyses; environmental assessment and wetland delineation; remediation design; permitting; bidding-phase support; and construction services.

Kelly Farm Sludge Lagoon Remediation Design, Millcreek and Fairview Townships, Pennsylvania. Project Manager. Michael Baker developed a preliminary and final design for capping the waste impoundment and rehabilitating the downstream dam and surrounding walls to control leaking and erosion and to eliminate waste exposure. Michael Baker's services included project management; subconsultant procurement; wetland site survey, delineation, and jurisdictional determination; development of plans, specifications, and cost estimates; and preparation of permit documentation.

General Technical Assistance for the Pennsylvania Superfund Program, Statewide, Pennsylvania. Pennsylvania Department of Environmental Protection. Engineer. ADSCO Landfill Focused Feasibility Study - Responsibilities included preparing conceptual grading plans for three cap configurations, comparing each alternative's cost and cap effectiveness, and producing plan and cross-section drawings. Under two consecutive general technical assistance contracts, Michael Baker provided environmental consulting services for sites that had been identified as threats to public health or the environment but did not qualify for inclusion on the U.S. Environmental Protection Agency's National Priorities list. Michael Baker's services included project management, storage tank management and closures, site characterizations, feasibility studies, engineering design and construction inspection, emergency water provisions, public involvement support, and third-party reviews. Michael Baker completed 92 work assignments under these two contracts.

Construction Oversight Phase I Remedial Action, Confidential Location, Ohio. Confidential Client. Engineer. Responsibilities included project construction inspection, daily contractor contact, design field changes, construction oversight, quality assurance sampling and testing, and review of change orders, contractor invoices, and submittals. Other responsibilities included developing construction plans and details, writing the Construction Certification Report, and directing optimization of sediment solidification reagents, depending on sediment type, consistency, and moisture content. Michael Baker was retained to provide design and construction management services to meet Consent Decree obligations for Phase I Remedial Action.

Quality Control Database, Confidential Location. Confidential Client. Project Manager. Supervised the preparation of design and construction schedules, submittals, permitting, design criteria, and lessons learned associated with a typical site development project. Michael Baker developed a comprehensive, interactive Quality Control Database including Lessons Learned Checklists that is organized by CSI specification section numbers and customizable to the specific scope of each project. Output reports can be sorted by project phase (i.e., conceptual, preliminary, detailed, etc.) or reviewing organization (i.e., consultant, owner representative, field representative, etc.), and replicated when appropriate (slump test signoffs, pressure test signoffs, etc.). The reports will enable the design and construction team to generate checklists for each discipline or trade that will improve quality and minimize mistakes, as well as confirm compliance with required steps and/or tests to obtain desired results.

EDUCATION (Degree, Year, Specialization)
B.S., 1997, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)
Professional Engineer, 2001, PA and WV

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
LANDFILL CLOSURE ASSISTANCE PROGRAM
CONSULTANT QUALIFICATION QUESTIONNAIRE**

Attachment "A"

13. PERSONAL HISTORY STATEMENT OF PRINCIPAL RESPONSIBLE FOR QA/QC OF HEAVY EARTHWORK CONSTRUCTION PROJECTS. (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF SOLID WASTE DESIGN EXPERIENCE:	YEARS OF SOLID WASTE RELATED DESIGN EXPERIENCE:
Toby M. Partridge P.E. Project Manager	15	15

Brief Explanation of Responsibilities

Mr. Partridge is a technical manager and licensed civil engineer with 15 years of experience in civil site design ranging from private development, to landfill design, to well pad design. As a project manager and technical lead, he has led teams of civil engineers, geotechnical engineers, geologists, environmental specialists, surveyors and construction inspectors during the design and construction of a variety of projects. In addition to being involved extensively in site design of several landfills and numerous well pads, he has provided construction oversight, inspection, and certification services on remediation capping and closure projects. His technical experience includes site design, landfill design, federal, state and local permitting, the development of effective Erosion and Sediment Pollution Control BMPs, stormwater management, site grading and drainage plans, and liner and cap design. He has successfully coordinated permit applications with various state agencies, prepared construction documentation, and aided clients in the bidding of contract and selection of contractors. He has also served as the lead technical engineer, on-site project engineer and Engineer of Record for several construction projects.

Landfill Construction, Gary, Indiana. United States Steel. As the certifying engineer Mr. Partridge was responsible for overseeing the construction of a new landfill cell and partial closure of a completed section of the landfill. Mr. Partridge's responsibilities included providing updated construction drawings and specifications, technical review of construction bids, coordination, and oversight of onsite CQC/CQA efforts and development of a certification report. The landfill expansion included the installation of a double liner, leachate collection systems, stormwater management and erosion and sediment control for the landfill cells. The partial closure included installation of a geosynthetic cap, geosynthetic drainage layer, drainage benches and final vegetative cover. Michael Baker prepared construction drawings, technical specifications, and a Construction Quality Assurance program for the project.

Currie Landfill Site, Millcreek Township, Pennsylvania. Pennsylvania Department of Environmental Protection. Michael Baker provided design and permitting services, developed bid specifications, assisted with contractor bid evaluation, and provided construction oversight during implementation of closure activities. Mr. Partridge was responsible for developing technical and permit documents for the remedial design of the landfill; developing bid documents to aid in the process of selecting a construction contractor; construction inspection/oversight; technical oversight of the project during the construction phase; and final Construction Certification. During the construction phase, Mr. Partridge worked closely with the contractor, PADEP and the other interested parties to resolve issues that arose, ensure the project moved forward and was built as designed.

Kelly Farm Sludge Lagoon Remediation Design, Karns City, Pennsylvania. Michael Baker developed a preliminary and final design for capping the impoundment and covering the cap and surrounding walls to control leaking and erosion, and to eliminate waste exposure. Michael Baker also provided a rehabilitation design for the impoundment embankment. Mr. Partridge was responsible for developing technical and permit documents for the final design and permitting of the cover system and dam embankment rehabilitation. Mr. Partridge also provided construction oversight/inspection and certification services on the project. During the construction phase, Mr. Partridge worked closely with the contractor, PADEP and the landowner to resolve issues that arose, ensure the project moved forward and was built as designed.

Landfill Closures, CERCLA Site Remediation of Coal Tars, USS-MIDC Site, Elizabeth, Pennsylvania. United States Steel. This site involved the solidification and consolidation of coal tars and cap design. Mr. Partridge provided various design services including site design, stormwater management design and erosion and sedimentation control for several areas within the site. Mr. Partridge worked closely with local and state agencies to get permit approvals for the site. Michael Baker also served as the project and construction manager for the remediation of coal tar, consolidation of wastes, and closure of landfill areas throughout the several hundred-acre site. Mr. Partridge served as the onsite project engineer and worked closely with the client and the contractor to successfully remediate three areas of an environmental waste. Roles and responsibilities included construction oversight and management, construction inspection, environmental inspection, and preparation of the construction certification report.

Landfill Evaluation, Permitting and Engineering Design, South Taylor Environmental Park, West Mifflin, Pennsylvania. United States Steel. Mr. Partridge was responsible for evaluating several options for expansion and closure of an existing Class 1 Residual Waste Landfill. Mr. Partridge's responsibilities included evaluating several expansion options and leading the design of the residual waste landfill expansion. The landfill expansion included the design of a double liner, leachate collection and detection systems, stormwater management and erosion and sediment control for two additional landfill cells. Michael Baker prepared design drawings, technical specifications, permit documents, a construction cost estimate, and a Construction Quality Assurance program for the expansion of the residual waste landfill.

EDUCATION (Degree, Year, Specialization) B.S. Engineering, 2006, Civil Engineering	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State) Professional Engineer, 2011, PA, OH, IN, AR, NY

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13. PERSONAL HISTORY STATEMENT OF PRINCIPAL RESPONSIBLE FOR WRITING QA/QC CLOSURE CERTIFICATION REPORTS FOR QUALITY CONTROL ACTIVITIES.
(Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF SOLID WASTE DESIGN EXPERIENCE:	YEARS OF SOLID WASTE RELATED DESIGN EXPERIENCE:
Christopher A. Garaventa E.I.T. Civil Engineer	9	9

Brief Explanation of Responsibilities

Mr. Garaventa was recently brought onto Michael Baker International in 2021 for his Solid Waste experience. For 9 years of his career Mr. Garaventa worked within the Power Generation Market Sector where he was with the Environmental and Solid Waste Design group working with numerous clients and state agencies including West Virginia DEP. Mr. Garaventa specializes in civil engineering with a background in report/ certification preparation, construction quality assurance (CQA), construction management, E&S control, Help Model analysis, slope stability analysis, geosynthetics, storm water management, surveying, and computer aided drafting and design (CADD). Mr. Garaventa specializes in Solid Waste Facility construction and geosynthetic Installation/oversight. Mr. Garaventa has observed and documented the installation of over 20 million square feet of geosynthetic materials. Mr. Garaventa has performed numerous Construction Quality Assurance (CQA/QAQC) inspections over many different construction projects and has contributed to, written, or reviewed many certification reports to state agencies and clients.

Engineering Design for Capping Sequence CCR Disposal Facility, PA. Responsible for producing a conceptual capping study for two ~200+acre coal ash landfills. Included in this task was providing a sequenced drawing in Civil 3D and conceptual cost study with inflation over the years indicated by the Client to complete the entire landfill cap.

Solid Waste Facility New Bottom Liner Cell Installation, Indiana County PA. Provided full time engineering and supervisory CQA support for the Stage IIIA landfill earthwork, civil design, geosynthetics installation, and report certification. This project included ~25-acre Class I (double) liner system, leachate detection/collection system, mass earthwork, and stream relocation. The certification report yielded no comments from the PADEP.

Owners Engineer Support Trimble County KY. Provided owners engineer support for new construction landfill. Responsible for answering RFI questions pertaining to geosynthetics, construction methods, QA/QC plan/procedure and earthwork. Responsible for ensuring liner documentation and QAQC plan was being adhered to. Oversaw leachate pond liner installation as owners engineer onsite and aided in onsite certification from KYDEP. In addition, reviewed and oversaw Client Contracted CQA firm CQA certification report for Leachate Pond installation.

Solid Waste Facility Closure Cap Design, Wise County, VA. Assisted with the design of the Stage closure cap and compiled the construction package. The construction package included the following for ~10 acres of closure: Responsible for creating the scope of work, construction specifications, CQA plan, construction drawings, cost estimates and bid quantities.

Solid Waste Facility Stage 4 Expansion, Armstrong County, PA. Provided office design and field CQA services for the earthwork of the Stage 4 Liner system. Field tasks included earthwork verification and compaction testing. Concrete and grout testing (grout lined channels and fabric form). Observed double wall force main and gravity flow piping welding/installation. Observed channel installation, weir installation, flow metering, and provided onsite engineering support throughout the project.

Solid Waste Facility Step 3 Expansion, Fayette County PA. (10 acres) Performed construction quality assurance monitoring, and certification report of the placement and acceptance of the soil subbase and installation of the Class 1 geosynthetic liner system (HDPE, GCL, GDN) and bottom ash placement.

Solid Waste Facility Desilting Basin Reconstruction, Indiana County, PA. (1 Acre Pond). Performed construction quality assurance monitoring, daily E&S inspections, and certification report of the Class 1 geosynthetic liner system (HDPE, GCL, GDN, Geotextile, Fabric Form). In addition to the liner system, provided CQA work for grout, concrete, flow monitoring system and weir installation, and aggregate road compaction testing. Provided onsite engineering support.

Solid Waste Facility Impoundment Closure Cap Design, Prince William County, VA. Provided office engineering support for Geotechnical, Environmental, and H&H design for the Impoundment closures project. Provided permit package preparation and support. Assisted with preparing specification and CQA package.

Solid Waste Facility Impoundment Closure, PA. Task manager for black-start generator project. Responsible for coordinating schedules, assigning field staff roles, subcontractor election and coordination, and overseeing CQA activities. In addition, responsible for coordinating lab analysis and prepare PADEP Form U.

Solid Waste Facility High Hazard Dam Spillway Reconstruction, Giles County, VA Assisted in the geotechnical stability design and performed the stability analysis with Slope/W software. Facilitated construction and CQA efforts for the construction of a large fabric- formed spillway for a high hazard dam. Assembled CQA report.

Solid Waste Facility Impoundment Closure, Washington County, PA Compiled and reviewed PADEP Form V permitting forms for new ash pond retrofit. Responsible for creating construction specification package and CQA Plan package.

EDUCATION (Degree, Year, Specialization)

B.S., 2013, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Engineer-In-Training, 2013, PA

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17. USE THIS SPACE TO PROVIDE ANY ADDITIONAL INFORMATION SUPPORTING YOUR FIRM'S QUALIFICATION TO PERFORM WORK FOR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Michael Baker International Inc. has performed numerous successful projects with the WVDEP. Michael Bakers long standing relationship and good standing with the WVDEP will aid with a successful project for the remaining work for the Elkins Landfill QA/QC work. Michael Baker does not only have strengths and competent personnel in the Solid Waste department but also is a very deep civil engineering personnel within numerous departments and market sectors. Between Pittsburgh PA and Charleston WV, Michael Baker International has approximately 700 professional staff qualified to work together to design and carry out successful project work.

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18. OUTSIDE KEY CONSULTANTS / SUB-CONSULTANTS ANTICIPATED TO BE USED.

NAME AND ADDRESS: NGE Consulting 650 MacCorkle Avenue West St. Albans, WV 25177	SPECIALTY: Drilling, Geotechnical Exploration, Concrete Inspection, Testing, and Monitoring	WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS: Bio-Chem Testing, Inc. 5 Weatherridge Drive Hurricane, WV 25526	SPECIALTY: Water Testing	WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS: Sturm Environmental Services Brushy Fork Road Bridgeport, WV 26330	SPECIALTY: Soil Testing	WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Michael Baker International, Inc.

Authorized Signature: Will D. Hill Date: 1/14/2022

State of Pennsylvania

County of Beaver, to-wit:

Taken, subscribed, and sworn to before me this 14th day of January, 2022

My Commission expires September 18, 2024.

AFFIX SEAL HERE

Commonwealth of Pennsylvania - Notary Seal
Cheryl L. Noss, Notary Public
Allegheny County
My commission expires September 18, 2024
Commission number 1377231
Member, Pennsylvania Association of Notaries

NOTARY PUBLIC

Cheryl L. Noss

Purchasing Affidavit (Revised 01/19/2018)