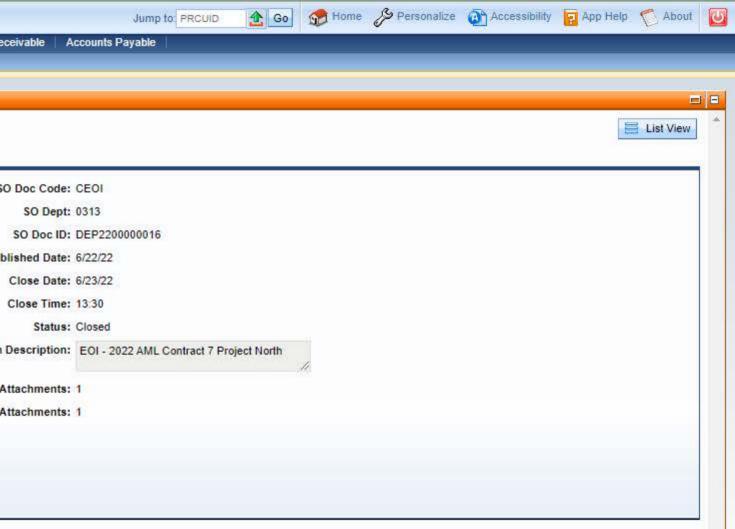


The following documentation is an electronicallysubmitted vendor response to an advertised solicitation from the West Virginia Purchasing Bulletin within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the 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.



Velcome, Robert M Ross			Procurement	Budgeting	Accounts Rec
Solicitation Response(SR) Dept: 0313 ID: ESR06212200000007948 Ver.	: 1 Functi	: New Phase: Final Modified by batch , 06/23/2022			
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General Information Contact Default Values Discount Document	Information	Clarification Request			
Procurement Folder: 1047657					SC
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Legal Name: CTL ENGINEERING	OF WV INC				Pub
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Total Bid: \$0.00					
Response Date: 06/21/2022					
Response Time: 19:11					Solicitation
Responded By User ID: ctleng	1			То	tal of Header A
First Name: Joe					Total of All A
Last Name: Stanley					
Email: jstanley@ctleng.co	m				
Phone: 304-292-1135					





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:	1047657				
Solicitation Description:	EOI - 2022 AML	EOI - 2022 AML Contract 7 Project North			
Proc Type:	Central Purchase	Central Purchase Order			
Solicitation Closes		Solicitation Response	Version		
2022-06-23 13:30		SR 0313 ESR06212200000007948	1		

VENDOR						
00000204737 CTL ENGINEERING OF WV INC						
Solicitation Number:	CEOI 0313 DEP2200000016					
Total Bid:	0	Response Date:	2022-06-21	Response Time:	19:11:16	
Comments:						

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	Professional Svcs - Weston (Curtis) Landsl	ide			0.00
Comm	Code Manufacturer		Specifica	ation	Model #
811000	000				
	odity Line Comments: EOI				
Commo					
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Extended Description:

Professional Svcs - Upland Run (Harrison) AMD and Drainage



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

1047657		Reason for Modification:
EOI - 2022 AML Contract 7 I	Project North	
Central Purchase Order		
Solicitation Closes	Solicitation No	Version
2022-06-23 13:30	CEOI 0313 DEP2200000016	1
	EOI - 2022 AML Contract 7 Central Purchase Order Solicitation Closes	EOI - 2022 AML Contract 7 Project North Central Purchase Order Solicitation Closes Solicitation No

BID RECEIVING LOCATION			
BID CLERK			
DEPARTMENT OF ADMINISTRATION			
PURCHASING DIVISION			
2019 WASHINGTON ST E			
CHARLESTON WV 25305			
US			
VENDOR			
Vendor Customer Code:			
Vendor Name :			
Address :			
Street :			
City :			
State :	Country :	Zip :	
Principal Contact :			
Vendor Contact Phone:	Extension	:	

FOR INFORMATION CONTACT THE BUYER Joseph E Hager III (304) 558-2306

joseph.e.hageriii@wv.gov

Vendor Signature X

FEIN# 55-063-1834

DATE June 21, 2022

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

west virginia



EXPRESSION OF INTEREST

EOI – 2022 AML Contract 7 Project North

CEOI 0313 DEP2200000016

June 22, 2022









EXPRESSION OF INTEREST

Engineering Services

EOI – 2022 AML Contract 7 Project North

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- CCQQ Attachment B
- RPEM Attachment C



SECTION 1 INTRODUCTION



June 21, 2022

West Virginia Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation 601 57th Street SE Charleston, WV 25304

Re: CEOI 0313 DEP2200000016 Expression of Interest Design Engineering Services EOI – 2022 AML Contract 7 Project North

Joseph E. Hager III;

CTL Engineering, Inc. is very pleased to present this Letter of Interest to provide design engineering and related services for the West Virginia Abandoned Mine Lands and Reclamation Program. With over 95 years in the business, we feel our firm can provide the professionals and facilities the State of West Virginia is looking for.

CTL has evolved into a recognized leader in the Abandoned Mine Lands Engineering Design and Investigation field. We offer the services necessary to provide a non-subcontract, quality product to support your program. Our capabilities include laboratory facilities, drilling rigs, surveying systems, design equipment, and a qualified staff. We have Professional Engineers registered in West Virginia that have direct AML Design Experience. Our in-house disciplines of professionals include: Civil & Mining Engineers, Geotechnical Engineers, CAD Designers, Surveyors, Geologists, Hydrologists and Biologists. We are experienced in completing more than 50 projects annually that require aerial mapping, support surveying with GPS, and final contouring for design.

Our in-house ability reaches beyond simply being an AML design firm. We also have extensive contract administration, and management experience with the procedures of the state of West Virginia. Our invoicing procedures and accounting software has been accepted, used, and audited by various state agencies.

CTL will be teaming with the Markosky Group to provide NEPA for the project. Markosky brings valuable knowledge and local experience for the project. Markosky is currently providing NEPA services for the WVDOH and has a local office in Charleston, WV. Markosky will also be available to address potential environmental permitting or construction issues.

CTL's primary staff has over 125 years of experience with mine reclamation engineering on both a national and international level. Our qualifications and facilities are unsurpassed when it comes to Abandoned Mine Reclamation Design. With an office Morgantown, we can effectively respond to any AML Design tasks throughout West Virginia. In addition, we have a dedicated design team available to complete AML design projects. Our staff members have extensive experience relative to reclamation design, highwall elimination, abandoned portal seals and drainage control structures. The Sullivan Refuse Project is similar in scope to more than 35 AML design projects that we have successfully completed. Attached to this EOI are numerous examples of similar projects which we have successfully designed and completed.

CTL has completed numerous landslide projects in several different states, for both private and public entities. CTL is currently working with FEMA on several landslide projects in Ohio. CTL has completed over 50 landslide projects in the FEMA program over the last two years and is currently working on 25 active landslide projects. CTL has several geotechnical engineers with experience regarding landslide stabilization and repair.

Our team has the experience and knowledge to provide services to all levels of the public and private sector. The general engineering requirements in your request actually describe the areas of expertise and experience of the team. CTL has provided designs and specifications for Public Projects and Private throughout the region



We sincerely appreciate the opportunity to submit this proposal to you for consideration. Should you have any questions or need additional information, please contact our office.

Respectfully submitted, CTL Engineering of West Virginia, Inc.

Joseph Stanley Business Development Manager



SECTION 2 CORPORATE HISTORY AND QUALIFICATIONS



FIRM INFORMATION – CTL Engineering

CTL WV is a full-service consulting civil & geotechnical engineering, drilling, materials testing and construction observation service company. CTL WV was founded in 1983 to provide regional service to West Virginia, Maryland and Pennsylvania. CTL WV is part of CTL Engineering, Inc. formerly known as Columbus Testing Laboratory, which was established in Columbus, Ohio in 1927 as an independent engineering testing laboratory serving the local community. Since 1927 our expertise has focused mainly on foundation engineering, construction testing and inspection services.

CTL WV has a state-wide staff of over 20 people; including licensed professional engineers, licensed land surveyors, environmental scientists, geologists and certified engineering technicians. Nationwide CTL Engineering sustains a staff of over 250 employees, providing additional professional expertise as well as staff and equipment resources for meeting project needs and goals.

Over our 39 years in West Virginia, CTL WV has provided numerous civil site designs, geotechnical designs, stormwater plans and surveys for commercial and residential developments and roadway projects. We have successfully prepared State and Federal 401 and 404 Permit submittals, Ms4 Phase II stormwater permits and conducted Environmental Site Assessments. CTL WV also has significant experience working on mining related projects including mine plans and permitting, mine refuse reclamation and subsidence evaluations. These projects were completed by conscientious interaction with Architects, Engineers, State and Federal Agencies and Owners.



CTL WV has certified engineering and laboratory technicians providing material testing and construction observation services. Our Morgantown lab is annually inspected by the West Virginia Division of Highways. CTL WV maintains a fleet of four drill rigs including truck, rubberized track and ATV mounted. Our crews have experience in steep terrain and barge drilling and deep boring exploration to depths greater than 300 feet. Additionally, CTL Engineering has a total of 13 drill rigs allowing CTL to place multiple rigs on one site, if project schedule demands.





FIRM INFORMATION – The Markosky Engineering Group

The Markosky Engineering Group, Inc. (Markosky) is headquartered in Ligonier, PA. We have offices in Charleston, WV, Steubenville, OH, and York, PA. Our Charleston Office will take the lead on this proposal and potential projects.

Markosky is a Woman-Owned Disadvantaged Business Enterprise that employs over 80 professionals, including nine environmental scientists and planners with experience completing NEPA documentation (including Environmental Impact Statements, Environmental Assessments, and Categorical Exclusions) on behalf

of a variety of lead federal agencies in numerous states, including West Virginia, Pennsylvania, Ohio, Indiana, North Dakota, Colorado, Wyoming, and North Carolina.

Markosky provides environmental consulting, construction management/inspection, and civil engineering services to public and private sector clients, including the following:

- NEPA compliance and permitting
- Regulatory agency coordination
- Environmental consulting, planning, and permitting
- Wetland /stream delineation and functional assessments
- Botanical surveys
- T&E Species coordination
- Waterway permitting
- Stream and wetland restoration and mitigation design

- Water sampling
- AMD treatment design
- Regulated material reviews
- Construction management and inspection
- Cultural resource investigations
- Geomorphological surveys
- Phased archaeological investigations
- Above ground historic structures evaluations
- Section 106 compliance
- Site restoration and grading design

At Markosky, we place great importance on collaboration within our team and with our clients. Collaboration at Markosky means more than just working together. We know that good ideas come from different perspectives: internal team members, diverse technical disciplines, outside experts, clients, and owners. Sifting these ideas and applying the best of them appropriately to the project is the work of collaboration. Our managers handle this task through cross-discipline reviews, team meetings, clear communication, and close client contact. Our effective collaboration process leads to meeting our clients' goals of quality projects delivered on time and within budget.



W\$\$MEN"



TECHNICAL AREAS OF STRENGTH FOR THE TEAM

Engineering Categories	Technical Areas of Strength
Geotechnical Engineering Services	✓
Civil Site Design (Mining and Reclamation)	 ✓
Professional Surveying Services	✓
Environmental	 ✓
Construction Inspection/Administration & Materials Testing	✓

Geotechnical Capabilities

CTL's Routinely Performs Subsurface Explorations and Soil and Rock Testing

CTL annually performs over 350 geotechnical explorations, including soil and rock testing, for highway, bridge and geohazard projects throughout the states of West Virginia, Ohio, Indiana and Kentucky. CTL owns and operates its own fleet of 13 drill rigs, the largest of which can drill, core rock, and take samples up to 300 feet deep. Our rigs are capable of accessing difficult locations since many of them are track-mounted, ATV or 4-wheel drive truck-mounted rigs.

In addition, CTL utilizes in-house geophysical equipment and software to evaluate variations in subsurface conditions such as the identification of the bedrock surface. These capabilities include Refraction Microtremor (ReMi), Electrical Resistivity Imaging (ERI) along with Ground Penetrating Radar (GPR) equipment to locate voids or other anomalies. CTL also has Pile Driving Analyzer (PDA) equipment for performing dynamic testing of driven piles.



CTL houses AASHTO-Accredited geotechnical testing laboratories in several office locations, which are each managed by Professional Engineers specializing in geotechnical engineering. These laboratories provide a detailed analysis of the surface and subsurface composition and chemistry of soils and rock encountered during geotechnical explorations and are equipped to conduct Consolidation, Tri-axial Shear, Unconfined Compressive Strength, Direct Shear, Moisture Density Relationship (Proctor Tests), and CBR tests.

CTL is well-known for providing cost-effective, yet safe solutions to difficult

subsurface conditions. We review a significant number of geotechnical reports prepared by others for the purpose of providing alternative recommendations that are more constructible, less conservative, yet maintain an appropriate factor of safety.

CTL has 20 geotechnical engineers with a majority of the engineers with Master's degrees and Professional Engineer Registration.





Civil Site Design

CTL WV's Design Team has the capabilities to handle any size project.

The main goals of civil site design are functionality, quality and efficient use of space, and overall appearance. Our design team consist of qualified people who live and work in the area and take pride in seeing their designs benefit the community. We have performed civil site design services for a wide variety of projects in Morgantown and throughout West Virginia, Pennsylvania and Ohio. These projects consist of **mining and AML related projects**, medical facilities, restaurants, and shopping centers. In addition, we have performed engineering for local school districts and universities. In our efforts to be a full-service company, we provide assistance through the funding process, design every element of a site, and manage the construction process, ensuring not only a quality product, but also the success of our clients. These are some civil site design services we can offer:



CTL WV provides the following Civil Design services:

Conceptual Design / Presentations Reclamation Design Stormwater Management Permitting (NPDES) Erosion and Sediment Control As-Built Surveys and Drawings	Complete Site Development	Infrastructure Planning and Design
	Conceptual Design / Presentations	Reclamation Design
Erosion and Sediment Control As-Built Surveys and Drawings	Stormwater Management	Permitting (NPDES)
	Erosion and Sediment Control	As-Built Surveys and Drawings

Professional Surveying Services

CTL WV Maintains a Full-Service In-house Surveying and Mapping Team



CTL WV has the professional staff and the latest equipment to support eight (8) full survey crews. Our equipment includes a Global Positioning System and Robotic Surveying Instruments which gives us an added dimension to our surveying and mapping capabilities.

We have performed surveying and mapping on many of our civil/site projects and have supplied construction stakeout and monitoring for many of our clients.

• Multi-disciplined offices within the region staffed with qualified and experienced personnel.

• Multiple crews equipped with the most up to date survey equipment: Trimble GPS, Trimble Robotic Instruments.

• Drone capabilities with multiple licensed pilots. We also have experience with the latest 3D modeling software.



Construction Administration & Inspection

CTL WV's Construction Administration Services Include On-site Daily Inspections

Federal, State, and Locally funded Construction Projects require a high level of administration and quality control to meet the project's demands. Counties and Municipalities, as well as private owners, developers, and contractors have selected CTL WV for Construction Administration, knowing that we have the experienced staff to be accurate, dependable, and perform these services in a timely manner. Our experienced engineers, inspectors, and technicians are your partners in construction. We help in completing these projects successfully and meeting the specific project requirements.



CTL WV's qualified construction inspectors will observe and inspect your construction project and complete the necessary daily documentation required by the Federal, State, and Local funding agencies participating in the project. CTL WV also provides in-house testing services such as concrete, asphalt, and sub-grade compaction, as well as daily on-site inspection services.

CTL WV provides the following CA services: Conduct Pre-Construction Conference Project Team Coordination Field Reports & Construction Documents' Admin Field Engineering and Inspections Material Certification and Shop Drawing Reviews Progress Meetings and Schedule Tracking Payments and Reimbursements Change Order Reviews Prevailing Wage Compliance EEO/DBE Contract Requirements Project Closeout Activities CTL WV's on-site inspector provides and/or participates in the following daily on-site Inspection services: Pre-Construction Conference Prepare Field Inspection & Quantities Reports Prepare Construction Docs & provide to Construction Admin Field Engineering in conjunction with Construction Administrator Observe & verify materials being used for the project Observe, identify and notify Construction Admin of deficiencies Provide Admin w/ monthly quantities for payment prep Material Testing, i.e., compaction, concrete, asphalt, etc.

Materials Testing and Laboratory Services

CTL WV is a Leader in Providing Analytical Services to the Construction Industry

We maintain a staff of experienced personnel and accurate equipment to guarantee dependable results. We evaluate all types of construction materials. Additionally, CTL can prepare and test Portland Cement and bituminous concrete mixes for optimization studies to insure the proper mix design for specific jobs.

CTL offers petrographic examination of construction materials. These specialized microscopic evaluations allow us to closely evaluate concrete quality and determine the causes and extent of failures in concrete, in addition to potential future performance.

In addition to the standard ASTM tests of strength, absorption, dimensions unit weights etc., CTL provides several specialty tests on



concrete block and brick, including the fire rating test, specified by the BOCA, and efflorescence testing required by many architectural firms.



Environmental Services

CTL Provides Environmental Services for Projects Varying in Complexities for Diversified Clients

CTL's environmental staff has a combined total of 144 years of experience in managing and conducting environmental projects of varying complexities. CTL performs over 500 environmental projects per year and follows the various ASTM standards, BUSTR and EPA regulations, and ODOT Guidelines for ESA Screening, Phase I and Phase II ESAs, UST Closures, Tier I & II Assessments, HazMat management and remediation. We also perform wetland delineation, permitting, and mitigation; asbestos, lead-based paint, and hazardous materials surveys, sampling, evaluation, as well as abatement project design & monitoring; waste management and disposal; GPR surveys; environmental monitoring/inspections during construction.



Markosky brings another level of depth to our team by adding or strengthening the following services

Markosky provides environmental consulting, construction management/inspection, and civil engineering services to public and private sector clients, including the following:

- NEPA compliance and permitting
- Regulatory agency coordination
- Environmental consulting, planning, and permitting
- Wetland /stream delineation and functional assessments
- Botanical surveys
- T&E Species coordination
- Waterway permitting
- Stream and wetland restoration and mitigation design

- Water sampling
- AMD treatment design
- Regulated material reviews
- Construction management and inspection
- Cultural resource investigations
- Geomorphological surveys
- Phased archaeological investigations
- Above ground historic structures evaluations
- Section 106 compliance
- Site restoration and grading design



SECTION 3 PROJECT APPROACH



Project Overview

AML Contract 7 Project North

The successful A/E Firm will be responsible for Design of the following (as may be applicable for each of the Projects as listed in Section Two):

- Access or accesses as required.
- Geotechnical investigation and analyses.
- Landslide Stabilization(s).
- Hydrologic and hydraulic analyses.
- Clear and grub affected areas.
- Regrade as necessary.
- Install drainage channels, underdrains, and/or other controls to safely convey water
- off-site.
- Condition and revegetate all disturbed areas.
- Obtain required permits as determined at the Pre-Design Meeting.

Locations: Projects are in Lewis County.

Project 1: Weston (Curtis) Landslide is located southeast of the City of Weston, in Lewis County, WV, off CR 36 (Little Skin Creek Road). The project is for the stabilization of dangerous landslides, road stabilization, and installation, repair and/or replacement of proposed and/or existing drainage controls and features.

Project 2: Upland Run (Harrison) AMD and Drainage is located west of the City of Weston, in Lewis County, WV, off CR 13 (Berlin Road). The project is for the stabilization of dangerous landslides, road stabilization, regrading, and installation, repair and/or replacement of proposed and/or existing drainage controls and features (including the installation of a new

Project Management Plan

Our approach to the AML Contract 7 Project North will be similar to other CTL AML projects. The Project Management Plan we have developed for these sites are as follows:

The project manager will be solely responsible for expedient and accurate completion of each phase of the individual projects performed under this contract. He will review the project sites and discuss the specific scope of work for the project with the project representative from the WVDEP. A cost proposal will be prepared, in accordance with contract unit rates, based upon an estimate of manpower, equipment, and laboratory needs.

CTL will engage (Markosky) to begin the NEPA scope of the project. Markosky will be directed by the CTL project manager. Proposed federal actions require compliance with the National Environmental Policy Act of 1969 (NEPA) (42 USC 4321, *et seq.*), and the Council on Environmental Quality Regulations for Implementing NEPA (40 C.F.R. Parts 1500-1508), among other more discipline-specific regulations including but not limited to Section 7 of the Endangered Species Act (ESA) of 1973, as amended, and Section 106 of the National Historic Preservation Act of 1966. Through the preparation of NEPA documents (including Environmental Impact Statements, Environmental Assessments, and Categorical Exclusions) on behalf of numerous federal agencies, Markosky's technical staff possess the knowledge and expertise to ensure compliance with these federal regulations.

As NEPA requires all federal agencies to review and analyze the environmental consequences associated with proposed actions, the US Department of Interior (DOI) Office of Surface Mining Reclamation and Enforcement (OSMRE) is also required to comply with NEPA whenever the bureau proposes to take an action, or authorizes any other entity to take an action, that could possibly affect environmental



resources. For the projects proposed, Markosky would ensure that all DOI and OSMRE-specific NEPA protocols and procedures for AML reclamation are followed during preparation of the environmental review document(s) on behalf of the OSMRE. This will ensure that the significance of impacts for these AML reclamation projects is thoroughly evaluated in order to prepare the appropriate decision documents and allow the projects to move forward.

CTL will then mobilize a fully equipped survey crew to set survey control and map the project site. Permanent control monuments will be established to ensure that the construction contractor can tie into the necessary baselines. The project manager will supervise the surveying tasks and provide budgetary control for this portion of the work.

A geotechnical exploration and analysis will be performed to delineate the thickness of mine refuse to determine and design the optimum stable grading plan. This exploration will be performed with a focus on safety to insure the safety of the local inhabitants and dwellings as well as the safety of the drilling and geotechnical personnel. For Landslide projects CTL will perform a geotechnical exploration to determine the cause(s) of the slip. We will prepare a geotechnical report which will include proposed alternatives for the repair of the slip.

Should field conditions dictate that additional work or a major modification is required, the project manager will contact the WVDEP representative immediately to confirm the changed conditions.

Following completion of the surveying, geotechnical exploration and any material sampling, the analytical design work will begin. The Project Manager and Engineer will review the project data, evaluate the feasible alternatives and prepare a preliminary set of construction documents. The documents will include at a minimum:

- 1. A site map indicating existing conditions;
- 2. A tax map overlay with the parcels identified that may be impacted by the proposed design;
- 3. Reclamation Plans for the project area.
- 4. Proposed site plans for the repair and stabilization of the landslide, including safely dewatering and excavation of all portals, if needed.
- 5. Provide Sedimentation and Erosion Control Plan
- 6. Site Profiles
- 7. Cross Sections
- 8. Drainage systems and control structures, with details
- 9. NPDES Permit
- 10. MM109 Permit
- 11. Survey control points
- 12. Miscellaneous Site details
- CTL will also provide all necessary data for the MM109 and NPDES permit including S&E Control Plans as required for the site construction and if deemed necessary, perform environmental assessments. CTL will make submittals for the NPDES permit.
- In addition to preparation of the above-described drawings, a complete set of specifications will be prepared and outlined to
 describe in detail the scope and methods of work to be accomplished. An estimate of construction costs and the design
 calculations will also be submitted to the WVDEP for review and future reference.
- Following the submission of the construction documents, a project design review meeting will be coordinated with the WVDEP, CTL, and appropriate individuals to review the proposed plans.
- Recommendations for plan revisions will be discussed and implemented, as necessary, into the final design documents. Upon completion, all final documents, drawings, plans and specifications will be forwarded to the WVDEP for bidding purposes.
- CTL will assist the WVDEP in the bidding process with any design or constructability questions.



- CTL will provide engineering technicians to provided QA/QC and materials testing throughout construction activities.
- CTL will provide daily reports and document the construction process and assist the WVDEP in the project closeout.

Project Goals

AML Contract 7 Project North

Project and Goals:

- 2.1. NEPA tasks and IIJA compliance.
- 2.2. Determine legal ownership of properties and provide legal documentation to substantiate legal ownership findings (if required).
- 2.3. Develop construction plans and technical specifications for all aspects to reclaim mine portals, drainage controls and systems, slope stabilization, coal refuse reclamation, stream restoration, highwall reclamation, limits of disturbance, storm water and erosion and sediment control, regrade and revegetation, and all other conditions encountered on the project sites.
- 2.4. Obtain/maintain/release all required permits.
- 2.5. Provide resident project representative, QA/QC certification, and prepare daily field activity logs summarizing construction activities.

CTL's abilities to complete the project scope and goals:

Tim Darrah will be the project manager for CTL. All communication through the owner for the duration of the project will be through Mr. Darrah. Mr. Darrah has the authority to engage any of CTL's staff or services for the completion of the project.



CTL has referenced several projects in (section 5) that were completed on time and on budget. CTL provides engineering services to a wide variety of projects with similar challenges as laid out in the EOI. We have a vast history providing engineering services to AML projects in WV and the surrounding states.

CTL will use the following project Management outline. CTL has accounting software that can provide work in progress reports weekly.

Plan Schedule Management

- Define Scope
- Sequence scope tasks
- Estimate Resources and cost
- Estimate Durations and cost to complete tasks
- Develop Schedule
- Control Schedule

CTL provides services to several projects throughout the year that are constructed timely and efficient.

Construction Management Plan

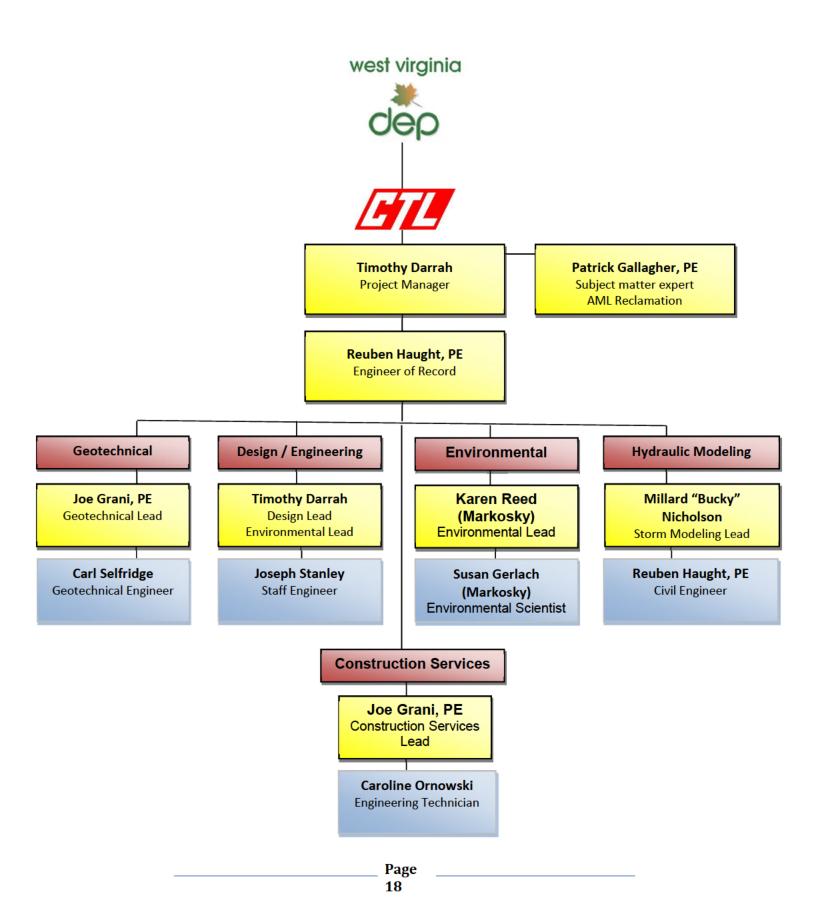
- Project Organization
- Project Planning
- Project Monitoring
- Project Control

CTL completes several projects a year that involve: landslide reclamation, civil site design, stormwater and drainage control, construction administration, construction inspection and testing, geotechnical engineering, surveying and environmental engineering.



SECTION 4 PROJECT PERSONNEL

CTL TEAM ORGANIZATION





CTL Team Key Personnel / Experience

Tim Darrah | Civil/Site and Surveying Department Manager

Education: B.S. Civil Engineering

Summary: Mr. Darrah will serve as the project manager for CTL. Mr. Darrah is presently responsible for department management for reclamation design, municipal engineering, civil site design, commercial development and surveying projects. Mr. Darrah also serves as project manager on various types of civil engineering projects including water, sewer and stormwater designs as well as residential, commercial developments and reclamation design projects. Office work includes project management, site designs, hydrology calculations, quantity calculations, and various other forms of engineering related duties.



Relevant Project Experience

-Guernsey Power Plant and Substation - Mine Grouting and Stabilization Design

- -ODNR Bond Forfeiture Program 20 plus Projects
- Morgantown Anderson Portals & Highwall Abandoned Mine Land Reclamation Design, Morgantown, West Virginia
- Hopewell Church Refuse and Acid Mine Drainage Abandoned Mine Lands, Preston County, West Virginia
- Fairmont (Jackson Addition) Subsidence Project Abandoned Mine Land Reclamation, Marion County, West Virginia
- Shinns Run Portals & Acid Mine Drainage Abandoned Mine Lands Reclamation, Harrison County, West Virginia
- Ream Refuse Piles Abandoned Mine Lands Reclamation, McDowell County, West Virginia
- Cheat Neck (Lenhart) Landslide, Monongalia County, West Virginia
- St. Clair Portals Abandoned Mine Lands Reclamation, Monongalia County, West Virginia
- Morning Star Baptist Church Subsidence, Marion County, West Virginia
- Fairmont United Methodist Church-Subsidence Investigation & Mitigation, Fairmont, West Virginia
- Eccles and MacArthur Subsidence, Raleigh County, West Virginia
- Peninsula Highwalls Abandoned Mine Lands Reclamation, Monongalia County, West Virginia

Reuben Haught, P.E. | Civil Engineer

Education: B.S. Civil Engineering Technology

Summary: Mr. Haught is a licensed professional engineer in West Virginia and Pennsylvania and will be the engineer in charge for the project. He is a Project Engineer whose responsibilities include mining reclamation plans, impoundment stability inspections, project management, site design, site grading, stormwater design, and stormwater permitting,. He is proficient in AutoCAD Civil 3D and Hydraflow Hydrographs. Relevant Project Experience

Morgantown Municipal Airport Runway Extension: Project Manager

More than 150 Weekly, Quarterly, and Annual Pond impoundment inspections each year since 2016.

Courtney Run Abandonment Plan Revision 18: Permitting through MSHA and WVDEP

WVU Willowdale Road Parking Garage: Road Adjustment Design and Permitting; Grading Design; Underground Storage and Pipe Network Layout, Sizing, and Permitting.





Patrick E. Gallagher, PE, CPGS | Technical Advisor

Education: B.S. Civil Engineering, Minor in Geology

Summary: Mr. Gallagher will serve as technical oversight for the project. Projects successfully completed under Mr. Gallagher's direction include: Civil Site Design, Foundation Design, Stormwater Management, Waste Water Design, Roadway Design, Parking Lot Design, Geotechnical Investigations & Design, Site Stability Analyses, Mine Subsidence Evaluations, Failure Investigations and Environmental Investigations and Expert Witness Testimony. Prior to joining CTL Engineering, Mr. Gallagher was the chief of the Abandoned Mine Reclamation Program for the State of Maryland, Department of Natural Resources, and Bureau of Mines. In addition, he was also responsible for overall



engineering/geologic support to the Maryland Bureau of Mines Program. His career began in Pittsburgh as a project geotechnical engineer with Orbital Engineering.

Relevant Project Experience

- ODOT 11-16 Mine Voids Mitigation SR 2, Ottawa County, OH
- Step&J 11-12 Eastern/Patriot Kopperston Refuse Impoundment, Wyoming County, WV
- LP Mineral 11-17 Overhead Conveyor Yearly Inspection, Monongalia County, WV
- MDE 2012 Doughlas Avenue Landslide Repair Project Task Order #9, Allegany County, MD
- WV DEP 12-13 Fairmont (Jackson Addition) Subsidence Project (DEP 15594), Marion County, WV
- CONSOL 2013 Annual Certification Loveridge, Marion County, WV
- Mepco 13-14 Seal Certification Prime No. 1 Mine, Monongalia County, WV
- MDE 2014 Shaft Firehall (TO#22), Frostburg, MD
- Island Creek 2015 North Branch Annual Certifications, Grant County, WV
- MDE 14-15 Aarons Run, Garrett County, MD
- AECOM 14-16 I-79 Interchange Mine Subsidence and Grout Stabilization, Monongalia County, WV
- Beaver 2015 Cowgill Waterline Stability Analysis, Noble County, OH
- MDE 15-16 Upper Georges Creek Stream Sealing Project Acid Mine Drainage, Allegany County, MD

Joseph Grani, P.E. | Geotechnical Engineer

Education: M.S. Geotechnical Engineering, 1994; B.S. Civil Engineering, 1991

Summary of Experience: Mr. Grani will be the geotechnical lead for the project. Mr. Grani has over 30 years of experience in the geotechnical field. He is responsible for the supervision of all subsurface exploration projects including landslides, foundation analyses and recommendations for roadways, bridges, sewers, buildings, towers, and tanks. He has managed geotechnical drilling operations for confirmation borings on large scale deep mine grouting projects. He has also worked on several roadway rehabilitation projects where unsuitable soils were encountered. His innovative solutions to projects have included using geogrid to bridge soft soils and decrease



required pavement thicknesses and the use of drying agents such as cement and lime to stabilize the soils. Mr. Grani was the Project Manager for various landslide projects including a 1,590-foot long plug pile retaining wall (HEN-110-0.66), and a 1,170-foot long plug pile retaining wall (ADA-125-13.30).

Also, Mr. Grani served as the Project Manager for the geotechnical explorations with varying level of design calculations on over 150 landslides in West Virginia and Ohio. In addition to landslides, in the past 5 years, Mr. Grani has served as Geotechnical Project Manager on over 50 other transportation projects including roadway realignments, as well as bridge and culvert replacements.



Carl Selfridge | Geotechnical Engineer

Education: B.S. Civil Engineering Technology

Summary: Mr. Selfridge will serve as a geotechnical engineer and provide geotechnical oversight and review for the project.

Mr. Selfridge's responsibilities include management of field drilling activities, field classification of soil and rock, field and laboratory safety procedures, and performing geotechnical evaluations. Engineering evaluations include foundation recommendations, settlement analysis, slope stability analysis, earth pressure coefficients and report preparation.

Relevant Project Experience

- Eccles and MacArtur Subsidence-Subsidence Investigation & Mitigation. Raleigh County, W.V.

- Shinns Run Portals & AMD-AML Reclamation & Geotechnical Services. Harrison County, W.V.
- Tunnel Ridge Slurry Cell A-Piezometer Installations & Geotechnical Services. Ohio County, W.V.
- Pine Creek: Omar Landfill-Geotechnical Services. Logan County, W.V.
- WV State- wide Landfill-Geotechnical Services.
- Buzzard Pond Dam-Geotechnical Services. Marshall County, W.V.

Millard "Bucky" Nicholson | Civil Engineer

Education: B.S. Civil Engineering

Summary: Mr. Nicholson will serve as the Stormwater Modeling Lead. Mr. Millard L. Nicholson Jr. is a Staff Engineer, Project Manager, and CAD Designer in the Morgantown, West Virginia office of CTL Engineering, Inc. His responsibilities include assisting in the planning and design of civil site design projects involving land planning and site development aspects, stormwater for MS4 communities and permitting. He is proficient in AutoCAD Civil 3D, HEC-RAS, TR-55, Hydraflow Hydrographs, Microsoft Word, and Microsoft Excel. His projects include commercial and residential properties, mine and energy sites, and, also, state, county, and local roads. Mr. Nicholson expertise in stormwater and hydraulic modeling are

crucial for any project CTL completes. All site development designs are coordinated through Bucky and rely on his calculations and analyses for site specific specifications. Bucky has completed numerous studies and analyses in support of modification to FEMA Flood Maps via LOMR (Letter of Map Revision) process. He has modeled several sites using HEC-RAS to determine the actual floodplain limits. Bucky also is our lead for green design in stormwater, such as biocells and rain gardens. Ditch calculations and drainage areas are other examples of Bucky's experience.

Relevant Project Experience

-LOMR and FEMA permits various locations in West Virginia

- Site Development stormwater design, various locations in West Virginia
- Hydraulic Modeling for Bridge Analysis, Monongalia County, West Virginia
- Fairmont Subsidence Abandoned Mine Land Reclamation, Marion County, West Virginia
- Morgantown Anderson Highwalls Abandoned Mine Land Reclamation Design, Monongalia County, West Virginia
- Shinns Run Portals Abandoned Mine Land Reclamation & Portal Closure, Harrison County, West Virginia
- Williams Refuse Pile Land Reclamation, Harrison County, West Virginia





Joseph Stanley | Civil Engineer Education: A.S. Drafting and Design

Summary of Experience: Mr. Joe Stanley is a Staff Engineer, Project Manager, and CAD Designer in the Morgantown, West Virginia office of CTL Engineering, Inc. His responsibilities include assisting in the planning and design of civil site design projects involving land planning and site development aspects. His projects vary from commercial and residential properties, mine and energy sites, and also includes state, county, and local roads.

Relevant Project Experience

- Fairmont Subsidence Abandoned Mine Land Reclamation, Marion County, West Virginia
- Morgantown Anderson Highwalls Abandoned Mine Land Reclamation Design, Monongalia County, West Virginia
- Shinns Run Portals Abandoned Mine Land Reclamation & Portal Closure, Harrison County, West Virginia
- Hopewell Church Refuse Abandoned Mine Drainage, Preston County, West Virginia
- Peninsula Highwalls Abandoned Mine Land Reclamation, Monongalia County, West Virginia
- Cheat Neck Landslide, Monongalia County, West Virginia

Karen Reed | Environmental Project Manager (Markosky Group)

Education: B.A. Anthropology Fort Lewis College, 2000

Summary of Experience: Ms. Karen Reed is a project manager with 17 years of experience in preparing NEPA documents and obtaining the required clearances for resources. She is also an archaeologist with significant experience with Section 106 of the National Historic Preservation Act. She has uniquely served as both an archaeological consultant on smaller bridge replacement and larger linear transportation projects but was also the acting Archaeology Unit Leader while working for the West Virginia DOH. In her position at the

DOH, she became directly familiar with the policies and guidelines of the DOH, and managed and conducted various Section 106 tasks within a broad range of transportation project types. This also exposed her to understanding the interdisciplinary cooperation of NEPA and natural resource efforts within the DOH to be able to effectively move projects forward while considering parallel design services. These experiences also included the preparation of Environmental Assessments (EA) and Categorical Exclusions (CE).

Relevant Project Expirence

- Greenbag Road Improvement Project (NEPA) WVDOH, Monongalia County, West Virginia
- Quick Curve Relocation Project (NEPA) WVDOH, Randolph County, West Virginia
- Seminole Road Project (NEPA) WVDOH, Summers County, West Virginia

- Allegheny Circle Road Improvement Project (NEPA) - Pittsburgh, PA

Susan Gerlach | Environmental Scientist (Markosky Group)

Education: B.S. Environmental Resources Management The Pennsylvania State University, 2011

Summary of Experience: Ms. Susan Gerlach has over 8 years of experience conducting technical assessments, evaluating resource constraints, and providing foundational information for planning, project, and policy decisions for the United States Department of the Interior, the North Carolina Department of Transportation, the Federal Highway Administration, and numerous municipal clients in the State of North Carolina. She has over 2 years of experience developing express design feasibility study reports and National



Environmental Policy Act documents such as Environmental Assessments (EA), Categorical Exclusions (CE), and Community Studies reports. Susan's responsibilities encompass resource agency coordination, public involvement, and qualitative and quantitative impact evaluations for highway, rail, and bridge projects. She is proficient in geospatial analysis, GIS mapping, and GPS data collection and processing, with additional skillsets in water resource monitoring, modeling, and assessment.

Relevant Project Experience

- Greenbag Road Improvement Project (NEPA) – WVDOH, Monongalia County, West Virginia







Caroline Ornowski | Engineering Technician

Education: B.S. Civil Engineering, Fairmont State University 2016 Summary of Experience:

Caroline is Level III construction inspector with 5 years of construction experience.in quality control testing and inspection of roadway, bridges and other infrastructure projects. She also has experience in construction – Above Ground Training OSHA – administration and inspection of general items such as: structures, storm sewers, sanitary sewers and waterlines.



Caroline has been assigned as the lead inspector on the MGW Runway Extension Runway construction project in Morgantown This project features over **100,000 yards of rock excavation** and potential stakeholder encroachment. She has strong knowledge and experience with quality control testing, coordination of other technicians and serving as liaison between clients, owner and contractor. She also maintained as-built drawings, measured various material quantities and provided daily report of the construction activities.

Relevant Project Experience

- Morgantown Airport Runway Extension City or Morgantown, West Virginia QA / QC
- Guernsey Power Plant and Substation Mine Grouting and Stabilization Design QA / QC
- I79 Widening WVDOH Asphalt QA / QC



SECTION 5 PAST PERFORMANCE

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AML & Relevant Project Experience

HIGHWALLS

- Anderson Highwalls, WVDEP
- Peninsula Highwalls, WVDEP
- St. Clair Portals, WVDEP
- Collins Mining, ODNR
- Miller Mining, ODNR

OPEN PITS

- Shinn's Run Portals, WVDEP
- Jones Trucking, ODNR
- General Clay #1 & #2, ODNR

OPEN MINE SHAFTS

- Kennel Mine Closure, MDE, AMLD
- Frostburg North Closure, MDE, AMLD
- Zilman Closure, MDE, AMLD

REFUSE PILES

- Hopewell Church Refuse & AMD, WVDEP
- Ream Refuse Pile, WVDEP
- Williams Refuse Pile, Private
- Harrison Power Plant, Allegheny Power

MINE SUBSIDENCE

- Fairmont Subsidence, WV DEP
- Lower Consol Road MDE, AMLD
- Terra Haute Airport, IN AML
- Farmington UMC, WV DEP Emergency
- Morningside Baptist, WV DEP Emergency
- Eccles Subsidence, WV DEP
- McArthur Subsidence, WV DEP
- Mark Kempner, NJ Private
- WV BRIM
- OMSIUA



MINE DRAINAGE/STREAM RESTORATION

- St. Clair Portals, WV DEP
- Aarons Run, MDE, AMLD
- Deckers Creek, WVDEP

LANDSLIDES

- Douglas Avenue Landslide, MDE, AMLD
- Schramm Landslide, MDE, AMLD
- Gordon Landslide, MDE, AMLD
- East Franklin Landslide, MDE, AMLD
- Cheat Neck Landslide, WV DEP
- McCourt Landslide, ODNR
- Caldonia Hill Slope Stability, MDE, AMLD

WATER SUPPLY REPLACEMENT

- Douglas Avenue Stormwater System Repair, MDE, AMLD
- Bald Knob & Potomac Hollow Water Investigations, MDE, AMLD
- Pee Wee Hill Supply Design, MDE, AMLD
- Pee Wee Will Water Feasibility Study, MDE, AMLD
- Fairview Water Feasibility, WV DEP
- Tioga Water Feasibility, WV DEP



AML / Mine Related-Past Performance Matrix

Name	Location	Landslide	Subsidence	Highwalls	Refuse Piles	AMD	Mine Openings	Stream Design / Restorations	Construction Docs / Bidding
Anderson Highwall	Monongalia County, WV			Х			Х		Х
Tars Hill Landslide	Jefferson County Ohio	X							Х
Oakhill Landslide	Allegheny County Maryland	Х							Х
Riddles Run Landslide	Jefferson County, Ohio	X							X
Aarons Run Road Failure & Landslide	Garrett County, Maryland	X							Х
Peninsula Highwall	Monongalia County, WV			Х			Х		Х
St. Clair Portals	Monongalia County, WV			Х	Х	Х	Х	Х	Х
Aaron's Run	Garrett County, MD					X		Х	Х
George's Creek	Garrett County, MD							Х	Х
Shinn's Run Portals	Harrison County, WV					X	Х		X
Williams Refuse Pile	Harrison County, WV				Х	Х			Х
Maryland Deep Mine Closures	Allegheny & Garrett County, MD						Х		Х
Hopewell Church & AMD, WVDEP	Preston County, WV			Х	Х	Х	Х		Х
Fairmont Subsidence	Fairmont, WV		Х						X
Blackwater River AMD	Tucker County, WV					Х			Х
Taylor Creek Impoundment	Clay County, WV				Х			Х	Х
Thomas Subsidence	Thomas, WV		Х						Х
Red Hollow Refuse Pile	Mc Comas, WV				Х				Х
Alderson Branch Refuse Pile	Raleigh County, WV				Х				Х
General Clay	Medina County, Ohio			Х					Х
Zerger Quarry	Noble County, Ohio			Х					Х



Past Project Experience

Project: Anderson Highwall Client: WVDEP AML Contact: AML Division (Bridgeport Office) Phone: (304) 926-0499 Location: Monongalia County, West Virginia Project Description: The site consisted of dangerous highwalls, seven or more open or partially open portals and a dangerous scrap yard with potentially dangerous materials. CTL provided surveying, geotechnical investigation, civil design and construction bidding documents.

Project: Tars Hill Landslide

Client: ODNR – Division of Mineral Resource Management Contact: AML Division Phone: (614) 265-7079 Location: Jefferson County, Ohio Project Description: CTL Engineering, Inc. provided engineering design services and construction documents necessary to repair and stabilize a landslide that has damaged a road and made it impassable. In addition, the hillside above the damaged road has become unstable and has several large slip areas. Abandoned deep mines, on both sides of the hollow, produce a significant number of ground water sources, which has added to the instability of the area.





Site design will begin on the collection and diversion of ground water, slope stability and road replacement once the final site investigation has been completed.

Project: Oakhill Landslide

Client: Maryland Department of Environment – Bureau of Mining Contact: MBOM Phone: (301) 689-8020 Location: Allegheny County, Maryland Project Description: CTL Engineering, Inc. provided engineering design services and construction documents necessary to reclaim and stabilize a landslide encroaching on Georges Creek and reducing the flow area of the stream. The site had been backfilled with mine spoil and mine drainage was saturating the slope and creating the instability. Subsurface

investigations were performed to determine soil characteristics,



strata depths and water levels, using piezometers. Slope stability analyses were performed to determine the corrective actions required to stabilize the area. Surface and subsurface drainage structures, a too key, and stream bank protection were designed to correct the instability

stability analyses were performed to determine the corrective actions required to stabilize the area. Surface and subsurface drainage structures, a toe key, and stream bank protection were designed to correct the instability problems and provide long term protection to the area.



Project: Riddles Run Landslide Client: ODNR – Division of Mineral Resource Management Contact: AML Division Phone: (614) 265-7079 Location: Jefferson County, Ohio Project Description: CTL Engineering, Inc. provided engineering

Project Description: CTL Engineering, Inc. provided engineering design services and construction documents necessary to repair and stabilize a landslide that has damaged a road. Mine drainage of abandoned deep mine entries have saturated the soil causing it to slide down the slope toward the road. In addition, trees whose roots have been loosened by the movement of soils are in danger of sliding onto the roadway.

This 0.15-acre site was cleared and grubbed to install a subsurface drain that will carry mine drainage away from the slip area.



This drain was constructed above and perpendicular to the slip. An additional surface drain was constructed and lined with rock to direct the flow from the subsurface drain to natural drainage.

Project: Oakhill Landslide

Client: Maryland Department of Environment – Bureau of Mining Contact: MBOM

Phone: (301) 689-8020

Location: Garrett County, Maryland

Project Description: CTL Engineering of West Virginia Inc. provided site investigation, geotechnical drilling and engineering services and remediation design for this road failure which was caused by subsidence from abandoned deep mines. The mines were within 50 feet of the road surface and had active water discharge on the outslope of the roadway. The design required the excavation of all material to the deep mine, create and engineered embankment to the road level and move the roadway further into the uphill side of the existing roadway.



This design was selected as the most cost effective way to remediate the failure and utilize nearby material for the fill.

Project: Peninsula Highwall Client: WVDEP AML Contact: AML Division (Bridgeport Office) Phone: (304) 926-0499 Location: Monongalia County, West Virginia Project Description: This site contained 1,800 LF of vertical to sloughed highwalls 15 to 25 feet high, 7 partially of totally collapsed mine portals, 1 open mine portal, subsidence depressions behind the portals and water present at or flowing from the portals. CTL Engineering of West Virginia, Inc. was retained to provide the design for the access road into the site,



wet seal 2 portals, regrade face of 2 portals, riprap channel and additional channel to carry water off site, backfill of highwalls and subsidence areas, restoration of golf path asphalt, and conditioning and revegetation of all disturbed areas.



Project: St. Clair Portals Client: WVDEP AML Contact: AML Division (Bridgeport Office) Phone: (304) 926-0499

Location: Monongalia County, West Virginia Project Description: The site consisted of coal refuse, acid mine drainage with impounded water, collapsed mine portals and highwalls. 17 portals were found along the highwall bench. Three impoundments of approximately 70,000 sq.ft. had water flowing at 300 gpm with a pH value of 3.1 and iron >10 mgl. A 35' to 45' high refuse pile was in the middle of the site as well as scattered refuse throughout the site.



CTL Engineering of West Virginia, Inc. was retained to provide the design for excavation and wet seal of at least 17 mine portals, dewater three impoundments, 2000 LF of stream reconstruction, regrade and cover of coal refuse and spoil areas on mine bench, drainage control channels to carry water off site. CTL was also responsible for the backfill of highwalls using spoil material to original contour and conditioning and revegetation of all disturbed areas.

Project: Aaron's Run AMD Project Client: Maryland Department of Environment – AML Division Contact: Mike Garner Phone: (301) 689-1440 Location: Garrett County, Maryland Project Description: CTL Engineering of West Virginia, Inc. was

retained to provide the design for multiple AMD treatment systems, 2 SAP cells, slurry doser, settling ponds, and natural wetlands. CTL also provided full site grading plans & drainage controls, access road & highway rated bridge, all state & federal permitting, and construction specifications and drawings.



Project: Upper Georges Creek Stream Sealing Project Client: Maryland Department of Environment – AML Division Contact: Tim Miller Phone: (301) 689-1440 Location: Garrett County, Maryland Project Description: CTL Engineering of West Virginia Inc. was retained to perform geologic and hydrologic assessments of the Upper Georges Creek Watershed to determine the extent and amount of stream flow lost to underground mines. CTL was responsible for conducting cooperative meetings with several stakeholders, reviewing existing reports and data on file at the AMLD

office and based on available data along with possibly field

measurements or drilling, develop plans to monitor streams to locate stream water loss zones. CTL then performed stream flow measurements within the study area to locate the areas of most significant water loss. Also, assessments to each tributary was completed as a part of the study. Upon completion of the study, CTL provided remediation options for sealing the streams.



Project: Shinns Run Client: WVDEP AML Contact: AML Division (Bridgeport Office) Phone: (304) 926-0499 Location: Harrison County, West Virginia Project Description: CTL Engineering provided surveying, reclamation design and subsurface investigations for this Abandoned Mine Lands and Reclamation project. The surveying was completed in order to establish the areas that will be reclaimed and to locate utilities that were not apparent on the mapping provided for the job. CTL provided drilling services near



the mine entries to determine the mine pool as well as near a bridge on site to determine the foundation depth and bearing capacity. CTL also developed sedimentation and erosion control plans for all disturbed sites.

Project: Williams Refuse Pile Client: Targe Energy Contact: Van Plocus Phone: (412) 784-0750 Location: Harrison County, West Virginia Project Description: CTL Engineering of West Virginia, Inc. was selected to perform engineering related services including environmental services, site design, and permitting for Targe Energy Reclamation, LLC during this *turnkey project*. This project was treated very similar to a complete surface mine application. The scope of services provided by CTL



included a refuse removal plan, field reconnaissance, ash backfill design, permits preparation, and environmental sampling.

Project: Maryland Deep Mine Closures Client: Maryland Department of Environment – AML Division Contact: Tim Miller Phone: (301) 689-1440 Location: Allegheny and Garrett County, Maryland Project Description: CTL Engineering of West Virginia, Inc. was retained to provide the develop detailed engineering design plans and construction plans including; cost estimates, bid documents, project drawings, maps, plans & specifications for the reclamation construction of multiple mine mouth closures. Design and Plans included dry and wet mine seals, bat gates, regrading, drainage structures and site reclamation.



RFQ / ENGINEERING SERVICES FOR THE WVDEP



Project: Fairmont Subsidence Client: WVDEP AML Contact: AML Division (Bridgeport Office) Phone: (304) 926-0499 Location: Harrison County, West Virginia Project Description: CTL Engineering provided surveying, reclamation design and subsurface investigations for this Abandoned Mine Lands and Reclamation project. The surveying was completed in order to establish the areas that will be reclaimed and to locate utilities that were not apparent on the mapping provided for the job. CTL provided drilling services near the mine entries to determine the mine pool as well as near a



bridge on site to determine the foundation depth and bearing capacity. CTL also developed sedimentation and erosion control plans for all disturbed sites.

Project: Blackwater River Client: WVDEP AML Contact: AML Division (Bridgeport Office) Phone: (304) 926-0499 Location: Tucker County, West Virginia

Project Description: CTL Engineering of West Virginia, Inc. provided Engineering Design Services and construction documents to rehabilitate an existing concrete dam and install a rotating drum and limestone slurry treatment facility on the Blackwater River. This project was a cooperative project with West Virginia Department of Environmental Protection and West Virginia Division of Natural Resources. This project has been recognized by **"Trout Unlimited"** and



was mentioned in the February 1993 issue of "Outdoor Life". The Blackwater River/Beaver Creek Treatment Project has successfully transformed a formally dead section of the Blackwater River into a high quality trout fishery and was recognized by the US Dept of Interior, Office of Surface Mining, as the 1999 Appalachian Region Award Winner.

Project: Taylor Creek Impoundment Client: WVDEP AML Contact: AML Division (Bridgeport Office) Phone: (304) 926-0499 Location: Clay County, West Virginia Project Description: CTL Engineering of West Virginia, Inc. provided Engineering Design Services and construction documents necessary for the reclamation and extinguishment of a 120acre burning refuse pile. This project also included the subsurface investigation of burning material to depths of approximately 110 feet, and the design and reconstruction of approximately 3,400 feet of Taylor Creek. Several areas of slope instability required stabilization. Additionally, an existing 24-acre coal related impoundment had to be evaluated, dewatered and the area stabilized.





Project: Morgantown Airport Runway Extension Client: City of Morgantown Contact: Michael Baker Phone: (304) 284-7405 Location: Monongalia, West Virginia Project Description: The Runway Extension Project is a five-year initiative taking place at the Morgantown Municipal Airport – the busiest airport



is to extend the existing runway by 1,001 feet, creating a safer takeoff and landing space for outgoing and incoming flights. Over 100,000 CY of rock excavation was part of the scope of the PH-1 project.



SECTION 6 CCQQ RPEM

WES	r virgini	A DEPARTMENT	OF ENVIRONMENTAL PRO	TECTION					
AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE "Attachment B"									
PROJECT NAME AML Contract Project 7 North		DATE (DAY, MONT) 06-21-2022	FEIN 55-063-1834						
1. FIRM NAME		2. HOME OFFICE	BUSINESS ADDRESS	3. FORMER	FIRM NAME				
CTL Engineering, Inc.		2860 Fisher Road Columbus, OH 4	3204	Columbus	Testing Laboratories				
4. HOME OFFICE TELEPHONE (614)276-8123	5. ESTABL CTL-1927	ISHED (YEAR) CTL-WV 1983	6. TYPE OWNERSHIP Individual Corpora Partnership Joint-V		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise)				
			-		YES NO				
6. PRIMARY AML DESIGN OFFICE: ADDR 1091 Chaplin Road, Morgantown, WV	26501/ 30)4-292-1135/ CK S	Satyapriya, President / M	forgantown	- 16				
7. NAMES OF PRINCIPAL OFFICERS OR C. K. Satyapriya – CEO Ali Jamshidi – CFO Bipender Jindal – Secretary Hassan Zahran – Principal Ali Karaki – Principal David Breitfeller – Principal	MEMBERS OF	F FIRM	8a. NAME, TITLE, & TELE Joe Grani – President – Ge Engineering of WV Timothy Darrah – Design M	eotechnical an	d Branch Manager of CTL				
Kevin Reichert – Principal			Office Telephone: 304-292-	1135					
9. PERSONNEL BY DISCIPLINE									
1 ADMINISTRATIVE ARCHITECTS BIOLOGIST 4 CADD DESIGNERS CHEMICAL ENGINEERS 3 CIVIL ENGINEERS 7 CONSTRUCTION INSPECTORS DESIGNERS 1 DRAFTSMEN	ISTS ISTS ICAL ENGINEERS NMENTALISTS TORS STS/GEOTECH ENG. IANS OGISTS	 LANDSCAPE ARCHITECTS MECHANICAL ENGINEERS MINING ENGINEERS PHOTOGRAMMETRISTS PLANNERS: URBAN/REGIONAL SANITARY ENGINEERS SOILS ENGINEERS SPECIFICATION WRITERS SOURS ENGINEERS S							
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>3</u> *RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.									
The TOTAL PERSONNEL number is for CTL Engineering, Inc. Morgantown, WV Office									
TOTAL PERSONNEL for CTL Engineering, Inc. is 250, which includes the Morgantown Office.									

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE?
YES NO

NAME AND ADDRESS:	copy is not on file with AML. SPECIALTY:	WORKED WITH BEFORE
		Yes
JAME AND ADDRESS:	SPECIALTY:	No WORKED WITH BEFORE
AME AND ADDRESS.	SPECIALI I.	worked with before
		Yes
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		No
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		Yes
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NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
NAME AND ADDRESS:	SPECIALTY:	<u>No</u> WORKED WITH BEFORE
		Vac
		Yes
		No

12. A. Are your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?
YES Description and Number of Projects: <u>CTL Engineering has completed more than 800 AML related</u>
projects nationally and internationally. See attached "AML Past Project Experience" for some specific examples. CTL completes un excess of 100 testing projects each year.
NO
B. Is your firm experienced in Soil Analysis?
YES Description and Number of Projects: Our in-house laboratories perform all ASTM mechanical, organic
and in-organic analyses for soils. Our labs are certified by WVDOH, OEPA and US Corps of Engineers.
NO
C. Is your firm experienced in hydrology and hydraulics?
YES Description and Number of Projects: Each of our site design and AML projects require hydrology &
hydraulic evaluations. We estimate that annually, we complete more than 100 projects requiring hydrology design.
NO
D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?
b. Does your film produce its own Aerial Photography and Develop Contour Mapping:
YES Description and Number of Projects:
YES Description and Number of Projects:
YES Description and Number of Projects: NO However, we annually complete more than 25 projects requiring aerial photography & mapping. While we sub-contract the aerial photography, in-house we provide GPS, surveying and develop the contouring as needed. CTL
YES Description and Number of Projects: NO However, we annually complete more than 25 projects requiring aerial photography & mapping. While we sub-contract the aerial photography, in-house we provide GPS, surveying and develop the contouring as needed. CTL deploys a drone to support contour mapping typicall for sites less than 10 acres. E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in
YES Description and Number of Projects: NO However, we annually complete more than 25 projects requiring aerial photography & mapping. While we sub-contract the aerial photography, in-house we provide GPS, surveying and develop the contouring as needed. CTL deploys a drone to support contour mapping typicall for sites less than 10 acres. 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.)
<pre>YES Description and Number of Projects: NO However, we annually complete more than 25 projects requiring aerial photography & mapping. While we sub-contract the aerial photography, in-house we provide GPS, surveying and develop the contouring as needed. CTL deploys a drone to support contour mapping typicall for sites less than 10 acres. 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: We have completed numerous waterline design projects and our in-house staff has more than 50 years of combined experience with aquifer degradation. NO</pre>
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			ırnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Gallagher, Patrick E., PE President, Project Manager	YEARS OF AML DESIGN EXPERIENCE: 40		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 32
Brief Explanation of Responsibilities President of CTL Engineering of WV, along with the management of the indi include marketing, proposal preparation report preparation. Projects successfull Investigations, Dam Stability Analyses, Reclamation Designs, Failure Investigation EDUCATION (Degree, Year, Specialization) B.S., 1975, Civil Engineering B.S., 1975, Equivalent, Geology	vidual engineering projects. , client contact, supervision .y completed by Mr. Gallagher i Mine Subsidence Evaluations, M ons, and Mining Permits.	His administration and ma of design personnel, schedu .nclude: Geotechnical Investi	anagement responsibilition aling, budget control, as gations, Foundation Desig
EMBERSHIP IN PROFESSIONAL ORGANIZATIONS merican Society of Civil Engineers Society of Mining Engineers of A.I.M.E. Triangle Fraternity of Engineers, Archit International Society of Soil Mechanics merican Institute of Professional Geolo 3. PERSONAL HISTORY STATEMENT OF PRINCI data but keep to essentials)	ects and Scientists and Foundation Engineers ogists	REGISTRATION (Type, Year, S Registered Professional Eng Virginia, 1984-Ohio, 1983-M Pennsylvania, 2006-Wyoming, Certified Professional Geol Professional Surveyor, 19 CE FOR AML PROJECT DESIGN (Fu	ineer; 1983-West aryland, 1993- 2006-North Carolina ogical Scientist - 1984 95-West Virginia
IAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Selfridge, Carl G. Department Head, Geotechnical Services	YEARS OF AML DESIGN EXPERIENCE: 11		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities Deartment Head Geotechnical Engineerin analysis & recommendations, program deve EDUCATION (Degree, Year, Specialization) Graduate Studies, 1996-1999, Civil Engin B.S., 1996, Civil Engineering, Geotechni A.S., 1994, Engineering Science	elopment for investigative and meering (Geotechnical) Ical and Structural	laboratory analysis.	
A.S., 1994, Engineering Science A.A.S., 1991, Mechanical Technology - De MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, S	tate)

 PERSONAL HISTORY STATEMENT OF PRINCIE data but keep to essentials) 	PALS AND ASSOCIATES RESPONSIBI	LE FOR AML PROJECT DESIGN (Fur	rnish complete				
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE					
Darrah, Timothy A. Civil Site Dept. Mgr., Project Manager	YEARS OF AML DESIGN EXPERIENCE: 26	YEARS OF AML RELATED DESIGN EXPERIENCE: 26	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE 26				
Brief Explanation of Responsibilities Mr. Darrah is presently responsible for reclamation design, commercial and resid client contacts for all surveying proje include drafting, writing of property de of surveying and civil engineering relate HEC-1, HEC-RAS and various other engineer	cts including topographic, p escriptions, hydrology calculated duties. He is also proficie	roperty and construction lay ations, quantity calculations	out. Mr. Darrah's duties and various other forms				
EDUCATION (Degree, Year, Specialization) B.S., 1988, Civil Engineering Technology							
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)					
 PERSONAL HISTORY STATEMENT OF PRINCIE data but keep to essentials) 	PALS AND ASSOCIATES RESPONSIBI	LE FOR AML PROJECT DESIGN (Fur	rnish complete				
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE					
Stanley, Joseph Project Manager	YEARS OF AML DESIGN EXPERIENCE: 12	YEARS OF AML RELATED DESIGN EXPERIENCE: 12	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 9				
Brief Explanation of Responsibilities		I					
Mr. Stanley is responsible for Reclar Residential Development, Valley Fill Foo Groundwater Inventory. PC Software includ Access.	mation Design, Drafting Hyd otprinting, Surveying, Subsid des Hydrologic TR-20, TR-55, H	drology, Quantity Calculation ence Surveys, Pre-Blast Surve Excel, Harstad Methods, Word,	ns, Stability Analysis, eys, Acid Base Accounts, AutoCADD Land, Quarttro,				
EDUCATION (Degree, Year, Specialization)							
A.S., 2001 Civil -Engineering Technology	Drafting & Design						
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St	ate)				

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE
Grani, Joe Branch Manager (WV) Geotechnical Manager	YEARS OF AML DESIGN EXPERIENCE:YEARS OF AML RELATED DESIGN EXPERIENCE:YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:00

Brief Explanation of Responsibilities

Mr. Grani is the Branch Manager of the WV office and also responsible for field review and exploration for the Geotechnical Engineering Department for CTL Engineering of West Virginia. Joe is involved in the management of field drilling, classification of soil and rock, field safety procedures, assignment of project specific lab testing, and performing geotechnical evaluations. Engineering evaluations include subsidence evaluation, foundation recommendations, settlement analysis, slope stability analysis, earth pressure coefficients and report preparation. EDUCATION (Degree, Year, Specialization)

B.S., 1991, The Ohio State University, Civil Engineering M.S., 1994, The Ohio State University, Civil Engineering

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

OFFICE EQUIPMENT 3 HP Color Plotters HP Color Scanner Duplicating equipment, copiers, blueprinting, laser printers, etc. Facsimile Machine

DESIGN SOFTWARE

Windows XP & 2000 based operating systems

Microsoft Office 2000 & 2002 is used for word processing, spreadsheet creation, data processing, and presentation creation. Alternative software including Corel Suite is available, if necessary Project designs and specifications are produced in our Computer Aided Drafting and Design (CADD) section using all versions of AutoCAD including Release current civil 3d version.

Hydrogeologic Studies MODFLO MODPATH SURFER CAPZONE GWPATH SKUGIS PHREEOCI WATEQ4F Groundwater for Windows Civil Engineering Software Civil 3D Profiling Civilsoft TR-20 & TR-55 SEDCAD HEC 1 & 2 HEC-RAS Arc GIS ArcPAD Carson Software Geotechnical GINT STABL6 SHAFT WSPRO Various Bridge, Pavement, Pile and Foundation Software

SURVEY EQUIPMENT

- 8 Trimble GPS Systems 6-R8 Receivers & 2- R10 Receiver
- 6 Total Stations (2- Robotics)
- DJI Inspire II Drone
- NAK Micrometer Level System & Direct Levels
- 4X4 Vehicles, including ATV for off-road use
- 2-Way Radios

SUBSURFACE INVESTIGATION EQUIPMENT

• CTL Engineering Inc.'s subsurface exploration equipment is adaptable for use on barges or all terrain vehicles (ATV's). CTL can mobilize special equipment or a fleet of drilling rigs to a particular project requiring multiple units. CTL Engineering currently owns and operates twelve (12) drill rigs with a capacity of drilling to a depth of 500 feet. Other equipment includes large diameter soil boring and rock core sampling equipment, in-situ pressure meters, field vane, GUS Sampler along with other field sampling and testing.

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• CTL's drill rigs are rotary drilling rigs equipped to conduct standard split-spoon sampling with the use of hollowstem augering, continuous sampler, casing with advancer, air and mud rotary, down-hole hammer, etc. The rigs are also equipped with Moyno pumps, wire-line or standard coring equipment for proper and efficient execution of a subsurface investigation program.

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- For this proposal, CTL owns and operates the following rigs:
- 1996 CME 45C Skid, trailer, and/or Truck Mounted Drill Rig System
- 1988 CME 55 Truck Mounted Rig
- 1978 CME 75 Truck Mounted Rig
- 1985 CME 75 Truck Mounted Rig
- 1987 CME 75 Truck Mounted Rig
- 2012 CME 550X Rubber Tired ATV Mounted Rig
- 2015 CME 550X Rubber Tired ATV Mounted Rig
- 1995 SIMCO 4000 Rubber Track Mounted Rig
- 2002 CME 55 Rubber Track Mounted Rig
- 2005 CME 550 Rubber Track Mounted Rig
- 2015 Mobile B-57 Rubber Track Mounted Rig
- Mobile "Minuteman" Small Portable Drilling Rig with Tripod System
- Portable Electric Core Drill with Truck Mount System

- Portable barges for water borne drilling (including supply boats w/outboard motors)
- In-situ permeability apparatus
- Single or double ring field infiltrometers for hydraulic conductivity testing
- Down hole temperature gauges
- Color Borehole Camera with 300 foot range
- Ground Penetrating Radar Undisturbed shelby tube sampling devices
- Standard penetration testing equipment (1", 2", 3" split spoons)
- Settlement probes
- Tripod portable drilling equipment for interior drilling with 7 feet of clearance
- CBR equipment
- Hand Augers
- Solid flight augers 4" O.D.
- Hollow stem augers 33", 43", 63" 83" I.D.
- Rotary drilling capability up to 12" O.D.
- Hydro Punch In-situ groundwater monitoring
- Conventional and wireline coring capabilities (1", 2", 3", & 4")
- Soil-gas survey equipment
- Pump testing equipment
- Decontamination Equipment Steam cleaners, drums, generators, etc.
- Electronic Data Loggers
- Field Sampling equipment for soil, water and groundwater
- Nuclear Densometer Soil Compaction
- PID, FID, CGI and various field monitoring equipment
- Groundwater and Soil Remediation Equipment
- Mobile activated carbon system
- Air and chemical stripping of soils and water

NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
ODOT District 9 ODOT District 6	Geotechnical Engineering and Drilling	NA	90%
WVDOT Charleston, WV	Geotechnical Engineering and Drilling	NA	2019-2022
Scioto County Ohio Engineer	Geotechnical Engineering and Drilling	NA	2022
MAGCS, LLC 308 Cheat Road Morgantown, WV 26508	Civil Site Design, Surveying, Geotechnical Engineering	CTL Fees \$65,000	50%
Monongahela Soils Conservation Morgantown, WV	Civil Site Design, Geotechnical Engineering	NA	50%
	OWNER ODOT District 9 ODOT District 6 WVDOT Charleston, WV Scioto County Ohio Engineer MAGCS, LLC 308 Cheat Road Morgantown, WV 26508 Monongahela Soils Conservation	OWNERRESPONSIBILITYODOT District 9 ODOT District 6Geotechnical Engineering and DrillingWVDOT Charleston, WVGeotechnical Engineering and DrillingScioto County Ohio EngineerGeotechnical Engineering and DrillingScioto County Ohio EngineerGeotechnical Engineering and DrillingMAGCS, LLC 308 Cheat Road Morgantown, WV 26508Civil Site Design, Surveying, Geotechnical EngineeringMonongahela Soils ConservationCivil Site Design, Geotechnical	OWNERRESPONSIBILITYCOSTODOT District 9 ODOT District 6Geotechnical Engineering and DrillingNAWVDOT Charleston, WVGeotechnical Engineering and DrillingNAScioto County Ohio EngineerGeotechnical Engineering and DrillingNAMAGCS, LLC 308 Cheat Road Morgantown, WV 26508Civil Site Design, Surveying, Geotechnical EngineeringCTL Fees \$65,000Monongahela Soils ConservationCivil Site Design, GeotechnicalNA

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST					
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY				
Morgantown Airport Expansion	Construction Management and Inspection	Michael Baker	2025	\$40,000,000	\$500,000				
Cacapon Resort	Civil Site Design and Surveying	Paradigm Architecture 2223 Cheat Rd. Morgantown, WV	2022	\$25,000,000	\$140,000				
Sunnyside TIF Project	Geotechnical Engineering and Surveying	Herbert, Rowland and Grubic, Inc 829 Fairmont Road Morgantown, WV	2022	\$6,000,000	\$50,000				
Jefferson County Schools	Jefferson County Schools, WV	Geotechnical Engineering and Drilling	2024	\$32,000,000	\$60,000				

17. COMPLETED WORK WITHIN LAST	5 YEARS ON WHICH YOUR FIRM WA	S THE DESIGNATED ENGINEER OF RECOR	RD	
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
WVU Aquatic Center Morgantown, WV	West Virginia University	\$45,000,000	2018	YES
Guernsey Power Plant Mine Grout Project Cambridge, Ohio	Gemma Power Systems Glastonbury, CT	\$1,000,000,000	2018- 2020	YES
WVUH Drug Rehab Center	WVU Hospitals 1 Medical Center Drive Morgantown, WV 26506	\$30,000,000	2018	YES
Southern WV Drilling	Department of Environmental Protection Office of the AML	\$650 , 000	2017- 2018	YES

18. COMPLETED WOR	K WITHIN LAST 5 YEARS ON	WHICH YOUR FIRM HAS BEEN A SUB-	-CONSULTA	NT TO OTHER FIR	RMS (INDICATE PHASE				
OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)									
PROJECT NAME,	NAME AND ADDRESS	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED	FIRM ASSOCIATED WITH				
TYPE	OF OWNER	OF YOUR FIRM'S PORTION		(YES OR NO)					
AND LOCATION									
Fremont City	Civil Site Design and	SSOE Group,	2020	\$52,000,000	\$400,000				
Schools	Surveying	1001 Madison Ave. Toledo,							
4 elementary		Ohio							
schools									
Cacapon Resort	Civil Site Design and	Paradigm Architecture 2223	2019	\$25,000,000	\$140,000				
	Surveying	Cheat Rd. Morgantown, WV							
Sunnyside TIF	Geotechnical	Herbert, Rowland and Grubic,	2019	\$6,000,000	\$50,000				
Project	Engineering and	Inc 829 Fairmont Road							
	Surveying	Morgantown, WV							
Arizona	Civil Site Design	Rizzo International	2020	NA	NA				
Infrastructure									
Project									
			0000	220 000 000	4175 000				
West Run Widening	Surveying and	Herbert, Rowland and Grubic	2020	\$28,000,000	\$175,000				
Morgantown, WV	Geotechnical	(HRG)							
19 Use this space	to provide any addition:	l al information or description of	l f resourc	l es supporting s	your firm's				
		West Virginia Abandoned Mine La			your ring s				
		fully designed more than 200 AM			ked nationally and				
		oblem sites. We have developed							
		lence Abatement, Mine Fires and							
		stabilization, extinguishment a							
	is a statement of facts.	, , ,							
20. The foregoing	is a statement of facts.	A							
Signature:									
	ballon								
Printed Name: Jos	eph Stanley	1							
	0 6								

NOTE: THIS DOCUMENT WILL BECOME VOID AFTER DECEMBER 31 IN CALENDAR YEAR OF DATE HEREON.

AML and REL	ATE) PR	OJ	EC	TI	EX	PE	RIE	EN	CE	M	ATF	RIX	(2	008	- 20)22)					
		PROJECT EXPERIENCE REQUIREMENTS							PRIMARY STAFF PARTICIPATION/CAPA *** M=Managemer P=Professional				PACITY ent									
PROJECT	Exp. Basis C=Corp. P=Personal *	Additional Info Provided in Section (s) **	Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine Refuse/ Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/ Replacement	Construction Inspection/Management	Water Treatment	Equipment/ Structure Removal	Stream Restoration	Geotechnica //Sta bility	PATRICK GALLAGHER, PE	TIM DARRAH	JOSEPH STANLEY	CARL SELFRIDGE	Millard Nicholson
MORGANTOWN ANDERSON HIGHWALLS (WV AML '12)	с			x	x	x				_	x							MP	МР	Р		Р
SCHRAMM - GORDON -EAST FRANKLIN LANDSLIDES (MD AML '12)	с		x	x							x						x	мр	МР	Р	Р	
DOUGLAS AVENUE STORMWATER SYSTEM (MD AML '12)	с					x						x						мр				
FAIRMONT SUBSIDENCE (WV AML '12)	с	Profile		x					x		x						x	мр	МР	Р	Р	Р
DOUGLAS AVENUE LANDSLIDE (MD AML '12)	С			x		x			x		x						x	мр	МР	Р	Р	Р
LOWER CONSOL ROAD SUBSIDENCE (MD AML '11)	с		x	x					x		x						x	мр	МР	Р	Р	Р
BALD KNOB WATER SUPPLY STUDY (MD AML '12)	с					x						x						МР	МР			
SHINNS RUN PORTALS (WV AML '11)	с	Profile		x	x												x	мр	МР	Р	Р	Р
REAM REFUSE PILE (WV AML '10)	с	Profile	x					x										мр	МР	Р		
PEE WEE HILL WATER SUPPLY (MD AML '10)	с											x						мр	МР			
TERRA HAUTE AIRPORT (IN AML '10)	с			x	x				x		x						x	мр	мр		Р	
KENNEL MINE CLOSURE (MD AML '10)	с		x	x	x						x							мр	мр	Р		
FROSTBURG NORTH CLOSURE (MD AML '10)	с		x	x	x						x							мр	мр	Р		
PEE WEE HILL WATER FEASIBILITY (MD AML '10)	с											x						мр	мр		Р	
WILLIAMS REFUSE PILE #2 (Private AML '09)	с		x			x	x			x	x	x	x	x			x					
PENINSULA HIGHWALLS (WV AML '09)	с	Profile	x	x		x			x		x						x	МР	МР	Р	Р	Р
ST. CLAIR PORTALS (WV AML '09)	с	Profile	x	x	x	x					x					x	x	мр	мр	Р	Р	Р
CHEAT NECK LANDSLIDE (WV AML '09)	с	Profile			x	x					x						x	мр	МР	Р	Р	
FARMINGTON UMC (WV DEP EMER. '09)	с								x		x							мр	мр		Р	
MORNINGSIDE BAPTIST (WV DEP EMER. '09)	с								x		x							мр	мр		Р	
COLLINS MINING (ODNR FOR. '09)	с		x								x							мр	мр	Р		
FAIRVIEW WATER FEASIBILITY(WV AML '09)	с											x						МР	МР			
AARON'S RUN (MD AML '09)	с	Profile	x			x					x	x		x		x		мр	МР	Р		
ECCLES SUBSIDENCE (WV AML '08)	С								x		x						x	мр	мр		Р	
McARTHUR SUBSIDENCE (WV AML '08)	с								x								x	МР	МР		Р	
TIOGA WATER FEASIBILITY (WV AML '08)	с											x						мр	мр			
McCOURT LANDSLIDE(ODNR FOR. '08)	с		x			x					x						x	мр	мр	Р	Р	
JONES TRUCKING (ODNR FOR. '08)	с		x								x							МР	МР	Р		
MILLER MINING (ODNR FOR. '08)	с					x					x	x						МР	МР	Р		
ZILMAN CLOSURE (MD AML '08)	с			x	x						x							МР	МР	Р		
CALDONIA HILL SLOPE STABILITY (MD AML '08)	с		x														x	МР	МР			
WEST VIRGINIA BRIM (2005 - 2012) 42 Projects	с								x								x	МР	МР		Р	
OMSIUA (2005 - 2010) 47 Projects	с								x								x	МР	МР		Р	
(2005 - 2008) 20 Additional AML Projects for WV, MD, OH, PA	с		x	x	x				x		x	x	x				x	мр	мр		Р	

* List whether project experience is corporate or personnel based or both. ** Use this area to provide specific sections or pages if needed for reference. *** List Primary Design personnel and their functional capacity for the projects listed.

Attachment "B"

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.

(Name, Title)	Business Development Manager					
(Printed Name and Title)	Joe Stanley, Business Development Manager					
(Address) 1091 Chaplin	Road Morgantown, WV 26501					
(Phone Number) / (Fax Number)						
(email address)jstanley@	ctleng.com					

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through *wv*OASIS, 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 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.

CTL Engineering of West Virginia, Inc

(Company)	Business Development Mananger	
(Authorized S Joe Stan	Signature) (Representative Name, Title) nley Business DEvelopment Mananger June 21, 20212	
	ne and Title of Authorized Representative) (Date) 292-1135 / 304-296-9302	-
(Phone Numb	ber) (Fax Number) tanley@ctleng.com	
(Email Addre	ess)	

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:	CTL Engineering of West Virginia			
Tax ID #:	55-063-183			
Address:	1091 Chaplin Road			
City, State, & Zip:	Morgantown, WV 26501			
Phone Number:	304-292-1135			
Email Address:	jstanley@ctleng.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: <u>https://www.osmre.gov/resources/forms/OMB1029-0119instructions.pdf</u> If you require assistance you may contact the AVS Office by phone at: 800-643-9748, or by email at: <u>avshelp@osmre.gov</u>.

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,

, 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.
- X 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.

Jestanty

06/21/2022

Date

Signature

Business Development Mananger

Title



AVS OFT Report - 6/21/2022 3:37:49 PM All OFT's where the selected entity is listed as an entity or related entity Entity Selected (138901) CTL Engineering Inc

Parent Entity	Relationship	Description	Related Entity	% Ownership	Begin Date	End Date
(247114) CTL Engineering Inc ESOP	Shareholder		(138901) CTL Engineering Inc		1/15/1999	
(138901) CTL Engineering Inc	Owner		(247019) CTL Engineering of Indiana Inc	100%	12/1/2007	
(138901) CTL Engineering Inc	President		(138899) C K Satyapriya		5/10/1986	
(138901) CTL Engineering Inc	Shareholder		(138899) C K Satyapriya	17%	7/1/1980	
(138901) CTL Engineering Inc	Chief Executive Officer		(138899) C K Satyapriya		1/15/1999	
(138901) CTL Engineering Inc	Chairman of the Board		(138899) C K Satyapriya		1/15/1999	
(138901) CTL Engineering Inc	Shareholder		(247019) CTL Engineering of Indiana Inc	80%	3/20/1998	1/15/1999
(138901) CTL Engineering Inc	Chairman of the Board		(138898) Asbjorn Kvammen Jr		11/23/1980	1/15/1999
(138901) CTL Engineering Inc	Chief Executive Officer		(138898) Asbjorn Kvammen Jr		11/23/1980	1/15/1999
(138901) CTL Engineering Inc	Shareholder		(138898) Asbjorn Kvammen Jr	73%	6/27/1980	1/15/1999
(138901) CTL Engineering Inc	Shareholder		(247019) CTL Engineering of Indiana Inc	29%	1/15/1999	12/1/2007