



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

State of West Virginia Purchase Order

Order Date: 11-04-2024

CORRECT ORDER NUMBER MUST APPEAR
ON ALL PACKAGES, INVOICES, AND
SHIPPING PAPERS. QUESTIONS
CONCERNING THIS ORDER SHOULD BE
DIRECTED TO THE DEPARTMENT
CONTACT.

Order Number:	CPO 0313 9171 DEP2500000008 1	Procurement Folder:	1257588
Document Name:	EOI - 2023 AML Contract S3	Reason for Modification:	
Document Description:	EOI - 2023 AML Contract S3		
Procurement Type:	Central Purchase Order		
Buyer Name:	Joseph E Hager III		
Telephone:	(304) 558-2306		
Email:	joseph.e.hageriii@wv.gov		
Shipping Method:	Best Way	Effective Start Date:	2024-11-11
Free on Board:	FOB Dest, Freight Prepaid	Effective End Date:	

VENDOR	DEPARTMENT CONTACT																				
Vendor Customer Code: 000000189555 ATC GROUP SERVICES LLC DEPT 2630 PO BOX 11407 BIRMINGHAM AL 35246-2630 US Vendor Contact Phone: 999-999-9999 Extension: Discount Details: <table><thead><tr><th></th><th>Discount Allowed</th><th>Discount Percentage</th><th>Discount Days</th></tr></thead><tbody><tr><td>#1</td><td>No</td><td>0.0000</td><td>0</td></tr><tr><td>#2</td><td>Not Entered</td><td></td><td></td></tr><tr><td>#3</td><td>Not Entered</td><td></td><td></td></tr><tr><td>#4</td><td>Not Entered</td><td></td><td></td></tr></tbody></table>		Discount Allowed	Discount Percentage	Discount Days	#1	No	0.0000	0	#2	Not Entered			#3	Not Entered			#4	Not Entered			Requestor Name: Jessica S Chambers Requestor Phone: (304) 414-1140 Requestor Email: jessica.s.chambers@wv.gov 2025 FILE LOCATION _____
	Discount Allowed	Discount Percentage	Discount Days																		
#1	No	0.0000	0																		
#2	Not Entered																				
#3	Not Entered																				
#4	Not Entered																				

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

CR 11-8-24

Purchasing Division's File Copy

Total Order Amount:	\$6,204,095.53
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PURCHASING DIVISION AUTHORIZATION DATE: 11-6-24 ELECTRONIC SIGNATURE ON FILE	ATTORNEY GENERAL APPROVAL AS TO FORM DATE: 11/8/24 ELECTRONIC SIGNATURE ON FILE	ENCUMBRANCE CERTIFICATION DATE: 11-14-24 ELECTRONIC SIGNATURE ON FILE
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Extended Description:

The vendor, ATC Group Services LLC., agrees to enter into this contract with the agency, The West Virginia Department of Environmental Protection, for the design engineering services for the 2023 AML Contract S3 per the specifications, terms and conditions, and the vendors submitted cost proposal received 11/1/2024, all incorporated herein by reference and made a part hereof.

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
1	81100000	0.00000		0.000000	317480.50
Service From		Service To	Manufacturer	Model No	

Commodity Line Description: Professional Svcs - Clifftop Strip Complex

Extended Description:

Professional Svcs - Clifftop Strip Complex

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
2	81100000	0.00000		0.000000	276252.50
Service From		Service To	Manufacturer	Model No	

Commodity Line Description: Professional Svcs - Clifftop Strip South

Extended Description:

Professional Svcs - Clifftop Strip South

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
3	81100000	0.00000		0.000000	494864.84
Service From		Service To	Manufacturer	Model No	

Commodity Line Description: Professional Svcs - Clifftop (Road Fork) Drainage

Extended Description:

Professional Svcs - Clifftop (Road Fork) Drainage

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
4	81100000	0.00000		0.000000	480604.00
Service From		Service To	Manufacturer	Model No	

Commodity Line Description: Professional Svcs - Crozier Rd (G.A. Pacific) Portals & HW

Extended Description:

Professional Svcs - Crozier Rd (G.A. Pacific) Portals & HW

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
5	81100000	0.00000		0.000000	180235.50
Service From		Service To	Manufacturer	Model No	

Commodity Line Description: Professional Svcs - Lookout (Moore) Subsidence

Extended Description:

Professional Svcs - Lookout (Moore) Subsidence

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
6	81100000	0.00000		0.000000	589191.50
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Professional Svcs - Fayette Station Slide

Extended Description:
Professional Svcs - Fayette Station Slide

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
7	81100000	0.00000		0.000000	491411.00
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Professional Svcs - Keeney Creek Mines

Extended Description:
Professional Svcs - Keeney Creek Mines

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
8	81100000	0.00000		0.000000	220432.84
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Professional Svcs - Royal Loadout

Extended Description:
Professional Svcs - Royal Loadout

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
9	81100000	0.00000		0.000000	775505.40
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Professional Svcs - Nuttallburg South Bench

Extended Description:
Professional Svcs - Nuttallburg South Bench

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
10	81100000	0.00000		0.000000	419383.50
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Professional Svcs - Floyd Creek HW and Drainage

Extended Description:
Professional Svcs - Floyd Creek HW and Drainage

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
11	81100000	0.00000		0.000000	248720.50
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Professional Svcs - County Rt. 82 Portals

Extended Description:
Professional Svcs - County Rt. 82 Portals

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
12	81100000	0.00000		0.000000	730073.45
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Professional Svcs - Winona Complex

Extended Description:
Professional Svcs - Winona Complex

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
13	81100000	0.00000		0.000000	800540.50
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Professional Svcs - Winona East Highwall and Drainage

Extended Description:
Professional Svcs - Winona East Highwall and Drainage

Line	Commodity Code	Quantity	Unit	Unit Price	Total Price
14	81100000	0.00000		0.000000	179399.50
Service From	Service To	Manufacturer		Model No	

Commodity Line Description: Professional Svcs - Buffalo Creek Complex

Extended Description:
Professional Svcs - Buffalo Creek Complex

GENERAL TERMS AND CONDITIONS:

- 1. CONTRACTUAL AGREEMENT:** Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.
- 2. DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.
- 2.1. "Agency" or "Agencies"** means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
- 2.2. "Bid" or "Proposal"** means the vendors submitted response to this solicitation.
- 2.3. "Contract"** means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.
- 2.4. "Director"** means the Director of the West Virginia Department of Administration, Purchasing Division.
- 2.5. "Purchasing Division"** means the West Virginia Department of Administration, Purchasing Division.
- 2.6. "Award Document"** means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.
- 2.7. "Solicitation"** means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.
- 2.8. "State"** means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
- 2.9. "Vendor" or "Vendors"** means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

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

☐ **Term Contract**

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

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

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

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

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

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

☐ the contract will continue for _____ years;

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

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

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

☐ **Other:** Contract Term specified in _____

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

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

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

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

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

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

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

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

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

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

☐☐☐☐

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

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

Vendor must maintain:

☒ **Commercial General Liability Insurance** in at least an amount of: \$1,000,0000.00 per occurrence.

☒ **Automobile Liability Insurance** in at least an amount of: \$1,000,0000.00 per occurrence.

☒ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: \$1,000,0000.00 per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

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

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

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

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

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

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

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

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

☐ _____ for _____.

☐ Liquidated Damages Contained in the Specifications.

☐ Liquidated Damages Are Not Included in this Contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Revised 11/1/2022

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ADDITIONAL TERMS AND CONDITIONS
(Architectural and Engineering Contracts Only)

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

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

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

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

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

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

(Printed Name and Title) Jeff Rossi, Branch Manager

(Address) 270 William Pitt Way, Pittsburgh, PA 15238

(Phone Number) / (Fax Number) 412-826-3120, 412-297-1794

(Email address) jeff.rossi@oneatlas.com

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

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

Atlas Technical Consultants
(Company)


(Signature of Authorized Representative)

Kenneth Burns, Chief Operating Officer October 22, 2024
(Printed Name and Title of Authorized Representative) (Date)

303.248.8870
(Phone Number) (Fax Number)

Ken.Burns@OneAtlas.com

(Email Address)

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: No. 1

PUR. ORD. NO.: _____

CONTRACT NAME: 2023 AML Contract S3

ATTN: Clayton K. Roderick

VENDOR: ATC GROUP SERVICES LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

OASIS VENDOR CUSTOMER NUMBER: 189555

COMMODITY LINE	PROJECT NO.:	DESCRIPTION (Project Name)	
1	EPAM24001	Professional Svcs - Clifftop Strip Complex	\$317,480.50
2	EPAM24002	Professional Svcs - Clifftop Strip South	\$276,252.50
3	EPAM24003	Professional Svcs - Clifftop (Road Fork) Drainage	\$494,864.84
4	EPAM21027	Professional Svcs - Crozier Rd (GA Pacific) Portals & HW	\$480,604.00
5	EPAM18073	Professional Svcs - Lookout (Moore) Subsidence	\$180,235.50
6	EPAM24010	Professional Svcs - Fayette Station Slide	\$589,191.50
7	EPAM24009	Professional Svcs - Keeney Creek Mines	\$491,411.00
8	EPAM24007	Professional Svcs - Royal Loadout	\$220,432.84
9	EPAM24008	Professional Svcs - Nuttallburg South Bench	\$775,505.40
10	EPAM24004	Professional Svcs - Floyd Creek HW & Drainage	\$419,383.50
11	7476	Professional Svcs - County Rt. 82 Portals	\$248,720.50
12	8585	Professional Svcs - Winona Complex	\$730,073.45
13	EPAM24005	Professional Svcs - Winona East HW & Drainage	\$800,540.50
14	EPAM24011	Professional Svcs - Buffalo Creek Complex	\$179,399.50
			\$6,204,095.53

DATES OF SERVICE: FROM _____ TO _____

DATE OF APPLICATION FOR PYMT: _____

ORIGINAL CONTRACT SUM	\$6,204,095.53
NET CHANGE BY CHANGE ORDERS	\$0.00
TOTAL CONTRACT SUM TO DATE	\$0.00
TOTAL BILLED TO DATE	\$0.00
LESS PREVIOUS PAYMENT TO DATE	\$0.00
CURRENT PAYMENT DUE	\$0.00

% COMPLETE: \$0.00 #DIV/0!
\$0.00

INVOICE TYPE: REG. ☒]
NO. 1

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES ☐] NO ☒]

SIGNATURES AND DATES:

REALTY REPRESENTATIVE

PLANNING REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

[Signature] 9/26/24
VENDOR SIGNATURE AND DATE

KBN J. BURNS, JR.
VENDOR PRINTED NAME



Project Scoping Narrative 2023 AML Contract – S3

Clifftop Strip Complex *WV-4266*

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Clifftop Strip Complex AML project. Proposed reclamation activities at the Clifftop Strip Complex AML Site include the construction of drainage control channels and culverts to carry water safely off site, the reconstruction/restoration/ relocation of three clogged stream channel areas created by highwall cuts and in-stream deposition (totaling approximately 2,800 linear feet (LF)), the excavation and installation of dry seals at three (3) previously-identified mine portals, the regrading and backfill of approximately 3,800 LF of highwall (averaging 20 to 60 feet in height) at three locations to establish the estimated original contours, and conditioning and revegetation of all areas disturbed by construction. The project will also require the construction of approximately 500 linear feet of access road, and the upgrade of an additional 1,800 LF of access road. The completion of this project will remove AML hazards from land leased to a hunting club, as well as lands adjacent to a heavily-used county road. Stream work will remove coal refuse and sediment, allowing for natural stream flow. Additionally, a two-acre coal refuse pile exists at this site; however, the refuse area is well vegetated, and will not be disturbed by project completion.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.



Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification and characterization, mine portal identification, and supplemental Phase I Habitat Assessment surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an Environmental Assessment (EA) document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. Stream restoration designs will be completed to reconstruct the three sections of clogged stream channel, tying into the existing stream channel, located in the southeast corner of the proposed site. Coordination with the U.S. Army Corps of Engineers' (USACE) Huntington District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration work. The Phase I Bat Surveys will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Water Resources / Water Quality
- Floodplain Management
- Air Quality
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Biological Resources
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Application (Right of Entry) will be required for each individual stream crossing.



- A USACE Regional General Permit for Abandoned Mine Lands will be required for impacts to aquatic resources.
- Fieldwork includes initial wetland delineation and stream assessment, West Virginia Wetland Rapid Assessment Method analyses, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula surveys of the mine portals, as necessary.
- NEPA documentation will be an Environmental Assessment.
- Coordination with the USACE Huntington District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration work.
- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.

Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and



Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

A permit, through the US Army Corps of Engineers (USACE) will be required for the proposed stream restoration design efforts.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings



- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

Geotechnical

We propose to drill fourteen (14) borings (B-1 – B-14) to help locate possible sources of material for re-grading of the highwalls. The borings will include Standard Penetration Testing at approximately 2.5-foot centers of the soil until a maximum depth of 25 feet or auger refusal on bedrock, whichever comes first. Triad will prepare a geotechnical report summarizing our findings. Our planned scope of services is more fully discussed below.

ATLAS



Triad proposes to accomplish the test borings with a track- or ATV- mounted rotary auger drill rig and perform Standard Penetration Testing in the borings. The proposed drilling depths are as follows:

ATLAS

Boring No	Description	Soil Drilling with standard sampling (L.F.)	Termination Criteria	Notes/Assumptions
B-1	DH-1 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-2	DH-1 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-3	DH-1 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-4	DH-2 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-5	DH-2 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-6	DH-2 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-7	DH-3 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-8	DH-3 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-9	DH-3 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-10	DH-3 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-11	DH-3 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-12	DH-3 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-13	DH-3 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-14	DH-3 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
		350		

A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring. The boreholes will be checked for groundwater upon completion and after 24 hours when possible. Upon completion, the borings will be backfilled with auger cuttings.

Access to this site will be from Old Clifftop Road (County Route 11) and will include accessing approximately 0.3 miles on the east and 0.5 miles on the west to the farthest proposed boring location. We anticipate that access *will require the use of an excavator* to make roads and clear brush. After completion of drilling, we will perform restoration which includes re-grading any disturbed earth and a one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover. All disturbed areas will be seeded and mulched. All access and drill pads will be regraded to as close to original contours as possible. It should be noted that vegetative growth is not guaranteed. The estimated area of seeding and mulching is 4,500 feet by 12 feet. We have not included the cost for temporary erosion protection prior to cutting roads at the site. No creek crossings are assumed for this proposal. Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration.



However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter. Therefore, it is your responsibility to disclose the presence and provide the accurate location of all underground utilities not marked by the public utility location service. Triad will not be responsible for any damages that may result from striking underground utilities during the course of the subsurface exploration

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Clifftop Strip Complex site consist of five-day work weeks for sixteen weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Clifftop Strip Complex; WV-4266 AML Site.

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 2 of 6 Pages

[illegible]

WORK COMPLETED

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0

Contract Name: 2023 AML Contract S3

Commodity Line: 1

Project Name: Professional Svcs - Clifftop Strip Complex

Application No.: Clifftop Strip Complex (W)

Page 3 of 6 Pages

SCHEDULE PER CONTRACT						WORK COMPLETED					
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE UNITS	TOTAL BILLED TO DATE COST
TASK II: REALTY											
A	Exploratory Rights of Entry (EROE)										
1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00
2	Realty Agent										
a	Courthouse Work	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0	\$0.00
b	Field Reconnaissance / Landowner Correspondence	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0	\$0.00
c	Office Work / AMLNET	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	350	\$0.67	\$234.50		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$59.00	\$59.00		\$0.00		\$0.00	0.0	\$0.00
B	Construction Rights of Entry (CROE)										
1	Project Manager / Senior Engineer	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00
2	Realty Agent										
a	Courthouse Work	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00
b	Field Reconnaissance / Landowner Correspondence	HR	2	\$135.00	\$270.00		\$0.00		\$0.00	0.0	\$0.00
c	Office Work / AMLNET	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	350	\$0.67	\$234.50		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$59.00	\$59.00		\$0.00		\$0.00	0.0	\$0.00
C	Pre-Bid Conference										
1	Realty Agent	HR	2	\$135.00	\$270.00		\$0.00		\$0.00	0.0	\$0.00
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
D	Pre-Construction Conference										
1	Realty Agent	HR	2	\$135.00	\$270.00		\$0.00		\$0.00	0.0	\$0.00
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
					SUBTOTAL PAGE 3 COST		\$7,997.00	SUBTOTAL PAGE 3 PREVIOUS	\$0.00	SUBTOTAL PAGE 3 THIS APPLICATION	\$0.00
										SUBTOTAL PAGE 3 TO DATE	\$0.00

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION												
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT												
Purchase Order No.: 0						Application No.: Clifftop Strip Complex (W)			Page 4 of 6 Pages			
Contract Name: 2023 AML Contract S3												
Commodity Line: 1												
Project Name: Professional Svs - Clifftop Strip Complex						WORK COMPLETED						
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST	
TASK III: DESIGN												
A		SITE RECONNAISSANCE AND INVESTIGATIONS										
	I	Project Manager / Senior Engineer		HR	24	\$190.00	\$4,560.00		\$0.00	0.0	\$0.00	
	2	Staff Engineer		HR	20	\$185.00	\$3,700.00		\$0.00	0.0	\$0.00	
	3	Mileage		Mile	0	\$0.67	\$0.00		\$0.00	0.0	\$0.00	
	4	Per Diem		Day	0	\$159.00	\$0.00		\$0.00	0.0	\$0.00	
B		SURVEYING & MAPPING										
	1	Project Manager		HR	12	\$190.00	\$2,280.00		\$0.00	0.0	\$0.00	
	2	Professional Surveyor / Chief Surveyor		HR	24	\$150.00	\$3,600.00		\$0.00	0.0	\$0.00	
	3	Survey Crew (3-Man)		HR	96	\$240.00	\$23,040.00		\$0.00	0.0	\$0.00	
	4	Senior Technician (CAD - Base Mapping)		HR	48	\$110.00	\$5,280.00		\$0.00	0.0	\$0.00	
	5	Topographic, Planimetric and Check Surveying		Acre	8	\$125.00	\$1,000.00		\$0.00	0.0	\$0.00	
	6	Mileage		Mile	1550	\$0.67	\$1,038.50		\$0.00	0.0	\$0.00	
	7	ATV Support Vehicle		Day	0	\$250.00	\$0.00		\$0.00	0.0	\$0.00	
	8	GNSS Equipment Rental		MO	1	\$500.00	\$500.00		\$0.00	0.0	\$0.00	
C		GEOTECHNICAL INVESTIGATION										
	1	Project Manager		HR	16	\$150.00	\$2,400.00		\$0.00	0.0	\$0.00	
	2	Senior Engineer		HR	16	\$185.00	\$2,960.00		\$0.00	0.0	\$0.00	
	3	Geotechnical Engineer / Geologist		HR	60	\$125.00	\$7,500.00		\$0.00	0.0	\$0.00	
	4	Mobilization / Demobilization		LS	1	\$7,500.00	\$7,500.00		\$0.00	0.0	\$0.00	
	5	Soil Augering with Sampling		LF	350	\$30.00	\$10,500.00		\$0.00	0.0	\$0.00	
	6	Rock Coring		LF	0	\$42.00	\$0.00		\$0.00	0.0	\$0.00	
	7	Water Hauling		Day	0	\$600.00	\$0.00		\$0.00	0.0	\$0.00	
	8	Heavy Equipment		HR	50	\$195.00	\$9,750.00		\$0.00	0.0	\$0.00	
	9	Piezometer Installation		LF	0	\$40.00	\$0.00		\$0.00	0.0	\$0.00	
	10	Reclamation		LS	1	\$10,000.00	\$10,000.00		\$0.00	0.0	\$0.00	
	11	Report		LS	1	\$5,000.00	\$5,000.00		\$0.00	0.0	\$0.00	
	12	Mileage		Mile	800	\$0.67	\$536.00		\$0.00			
	13	Lockable Protective Cover		Day	0	\$250.00	\$0.00		\$0.00	0.0	\$0.00	
					SUBTOTAL PAGE 4 COST	\$101,144.50	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Clifftop Strip Complex (W)						Page 5 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 1													
Project Name: Professional Svcs - Clifftop Strip Complex													
SCHEDULE PER CONTRACT						WORK COMPLETED							
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE			
										UNITS	COST		
TASK III: DESIGN (CONTINUED)													
D	ANALYSIS AND DESIGN												
1	Project Manager / Senior Engineer	HR	16	\$190.00	\$3,040.00		\$0.00		\$0.00	0.0	\$0.00		
2	Geotechnical Engineer	HR	0	\$150.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Environmental Specialist	HR	40	\$135.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00		
4	Staff Engineer	HR	4	\$150.00	\$600.00		\$0.00		\$0.00	0.0	\$0.00		
5	CADD Technician	HR	36	\$110.00	\$3,960.00		\$0.00		\$0.00	0.0	\$0.00		
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE												
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00		
2	Geotechnical Engineer	HR	0	\$150.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Environmental Specialist	HR	32	\$135.00	\$4,320.00		\$0.00		\$0.00	0.0	\$0.00		
4	Staff Engineer	HR	16	\$150.00	\$2,400.00		\$0.00		\$0.00	0.0	\$0.00		
5	CADD Technician	HR	148	\$110.00	\$16,280.00		\$0.00		\$0.00	0.0	\$0.00		
F	PERMITTING												
1	Project Manager / Senior Engineer	HR	44	\$150.00	\$6,600.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Environmental Scientist	HR	50	\$135.00	\$6,750.00		\$0.00		\$0.00	0.0	\$0.00		
3	CADD Technician	HR	36	\$110.00	\$3,960.00								
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
G	PRE-BID CONFERENCE												
1	Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00	0.0	\$0.00		
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
H	PRE-CONSTRUCTION CONFERENCE												
1	Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00	0.0	\$0.00		
2	Construction Inspector	HR	3	\$125.00	\$375.00		\$0.00		\$0.00	0.0	\$0.00		
3	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
					SUBTOTAL PAGE 5 COST	\$56,255.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00	

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 6 of 6 Pages

Project Name:	Professional Svcs - Clifftop Strip Complex
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SCHEDULE PER CONTRACT

TOTAL BILLED TO DATE

PROJECT TOTAL COST	\$317,480.50	PROJECT TOTAL PREVIOUS	\$0.00	PROJECT TOTAL THIS APPLICATION	\$0.00	PROJECT TOTAL TO DATE	\$0.00
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Cliffstop Strip Complex (W			Page X of X Pages		
Contract Name: 2023 AML Contract S3											
Commodity Line: N/A											
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
CONTRACT NAME: . Contract S3						GRAND TOTAL COST	\$317,480.50	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00
										GRAND TOTAL TO DATE	\$0.00

CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Clifftop Strip South *WV-4267*

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Clifftop Strip South AML project. Proposed reclamation activities at the Clifftop Strip South AML site include the reconstruction and restoration of three clogged stream channel areas totaling approximately 1,800 linear feet (LF) or 0.9 acres, the reconstruction of a five-acre spoil bench (approximately 20 feet in height) to allow the three restored stream channels an outlet for their flows to connect to the main unnamed tributary (UNT) to Manns Creek (flowing south across the valley floor), the drainage and reclamation of two heavily-visited impoundments adjacent to Babcock State Park, the excavation and installation of a wet seal at one previously-identified collapsed/draining mine portal producing approximately 30 gallons per minute, the regrading and backfill of an approximately 600-LF highwall (averaging 20 to 40 feet in height) to establish the estimated original contours, and conditioning and revegetation of all areas disturbed by construction. The Project will also require the construction of approximately 800 linear feet of access road. The completion of this project will remove AML hazards from land leased to a hunting club, as well as land located directly adjacent to Babcock State Park and one of its campgrounds. The work will also remove material and coal refuse from the adjacent stream channels, allowing for a more natural flow.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their



ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification and characterization, mine portal identification, and supplemental Phase I Habitat Assessment surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an Environmental Assessment (EA) document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. Standard engineering approaches for the stream reconstruction design will be implemented, using Rosgen-styled approaches. The Phase I bat assessments will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Air Quality
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies.
- A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for each stream individual stream crossing.
- Fieldwork includes initial wetland delineation and stream assessment, West Virginia Wetland Rapid Assessment Method analyses, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula surveys of the mine portals, as necessary.
- NEPA documentation will be a streamlined Environmental Assessment.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.



Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

Coordination with the USACE Huntington Regulatory District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration efforts. A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for each individual stream crossing, and the USACE Regional General Permit for Abandoned Mine Lands will be required for authorization of proposed impacts to aquatic and sensitive resources resulting from AML reclamation efforts.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.



Atlas will assess the proposed site for potential impacts to the following areas:

- Water Resources / Water Quality
- Floodplain Management
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- Biological Resources

Atlas has made the following assumptions:

- A USACE Regional General Permit for Abandoned Mine Lands will be required for impacts to aquatic resources.
- Coordination with the USACE Huntington District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration work.
- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides



- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) “control points” that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

Provision of the above-described survey services will be conducted in strict accordance with the “Standards for the Practice of Surveying in West Virginia” as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Clifftop Strip South AML site consist of five-day work weeks for sixteen weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Clifftop Strip South; WV-4267 AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: Clifftop Strip South (WV-4267)

PUR. ORD. NO.: _____

CONTRACT NAME: 2023 AML Contract S3

ATTN: Clayton K. Roderick

VENDOR: ATC Group Services LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

OASIS VENDOR CUSTOMER NUMBER: 189555

COMMODITY LINE	PROJECT NO.:	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
2	EPAM24002	Professional Svcs - Clifftop Strip South	\$0.00
		TOTAL AMOUNT DUE THIS INVOICE	\$0.00

DATES OF SERVICE: FROM _____ TO _____

DATE OF APPLICATION FOR PYMT: _____

INVOICE TYPE: REG. [**X**]
NO. 1

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES [] NO [X]

SIGNATURES AND DATES:

REALTY REPRESENTATIVE

PLANNING REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

VENDOR SIGNATURE AND DATE

VENDOR PRINTED NAME

ORIGINAL CONTRACT SUM	\$276,252.50
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NET CHANGE BY CHANGE ORDERS	\$0.00
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TOTAL CONTRACT SUM TO DATE	\$276,252.50
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TOTAL BILLED TO DATE	\$0.00
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LESS PREVIOUS PAYMENT TO DATE	\$0.00
-------------------------------	--------

CURRENT PAYMENT DUE	\$0.00
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% COMPLETE:	<u>\$0.00</u>	0.00%
	\$276,252.50	

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 3 of 6 Pages

WORK COMPLETEDAML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION												
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT												
Purchase Order No.: 0						Application No.: Clifftop Strip South (WV-			Page 4 of 6 Pages			
Contract Name: 2023 AML Contract S3												
Commodity Line: 2												
Project Name: Professional Svcs - Clifftop Strip South												
SCHEDULE PER CONTRACT						WORK COMPLETED						
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE UNITS	TOTAL BILLED TO DATE COST	
TASK III: DESIGN												
A	SITE RECONNAISSANCE AND INVESTIGATIONS											
1	Project Manager	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00	
2	Senior Engineer	HR	16	\$185.00	\$2,960.00		\$0.00		\$0.00	0.0	\$0.00	
3	Staff Engineer	HR	16	\$125.00	\$2,000.00		\$0.00		\$0.00	0.0	\$0.00	
4	Environmental Scientist	HR	8	\$135.00	\$1,080.00							
5	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
B	SURVEYING & MAPPING											
1	Project Manager	HR	12	\$150.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00	
2	Professional Surveyor / Chief Surveyor	HR	24	\$150.00	\$3,600.00		\$0.00		\$0.00	0.0	\$0.00	
3	Survey Crew (3-Man)	HR	76	\$240.00	\$18,240.00		\$0.00		\$0.00	0.0	\$0.00	
4	Senior Technician (CAS - Base Mapping)	HR	52	\$110.00	\$5,720.00		\$0.00		\$0.00	0.0	\$0.00	
5	Topographic, Planimetric and Check Surveying	HR	8	\$125.00	\$1,000.00		\$0.00		\$0.00	0.0	\$0.00	
6	Mileage	Mile	1200	\$0.67	\$804.00		\$0.00		\$0.00	0.0	\$0.00	
7	ATV Support Vehicle	Day	0	\$250.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
8	GNSS Equipment Rental	MO	1	\$500.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00	
C	GEOTECHNICAL INVESTIGATION											
1	Project Manager / Senior Engineer	HR	0	\$150.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
2	Geotechnical Engineer/Geologist	HR	0	\$125.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Mobilization / Demobilization	LS	0	\$6,500.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
4	Soil Augering	LF	0	\$30.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	Rock Coring	LF	0	\$42.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
6	Heavy Equipment	HR	0	\$195.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
7	Piezometer Installation	LF	0	\$45.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
8	Drill Crew Per Diem	Day	0	\$200.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
9	Reclamation	LS	0	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
10	Geotechnical Investigation Report	LS	0	\$5,500.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
11	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
12	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
					SUBTOTAL PAGE 4 COST	\$41,504.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Clifftop Strip South (WV-						Page 5 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 2													
Project Name: Professional Svcs - Clifftop Strip South						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION				UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	
TASK III: DESIGN (CONTINUED)													
D			ANALYSIS AND DESIGN										
	1		Project Manager / Senior Engineer			HR	8	\$190.00	\$1,520.00		\$0.00	\$0.00	
	2		Geotechnical Engineer			HR	12	\$150.00	\$1,800.00		\$0.00	\$0.00	
	3		Envionmental Specialist			HR	40	\$135.00	\$5,400.00		\$0.00	\$0.00	
	4		Staff Engineer			HR	0		\$0.00		\$0.00	\$0.00	
	5		CADD Technician			HR	32	\$110.00	\$3,520.00		\$0.00	\$0.00	
E			PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE										
	1		Project Manager / Senior Engineer			HR	8	\$190.00	\$1,520.00		\$0.00	\$0.00	
	2		Geotechnical Engineer			HR	0		\$0.00		\$0.00	\$0.00	
	3		Environmental Specialist			HR	36	\$135.00	\$4,860.00		\$0.00	\$0.00	
	4		Staff Engineer			HR	0		\$0.00		\$0.00	\$0.00	
	5		CADD Technician			HR	96	\$110.00	\$10,560.00		\$0.00	\$0.00	
F			PERMITTING										
	1		Project Manager / Senior Engineer			HR	30	\$175.00	\$5,250.00		\$0.00	\$0.00	
	2		Engineer / Environmental Scientist			HR	50	\$150.00	\$7,500.00		\$0.00	\$0.00	
	3		(a) Environmental Assessment - Senior Scientist			HR	24	\$150.00	\$3,600.00		\$0.00	\$0.00	
			(b) Environmental Assessment - Environmental Specialist			HR	40	\$105.00	\$4,200.00				
	4		WVDEP AML RGP/USACE coord			HR	24	\$150.00	\$3,600.00				
	5		WVWRAM Assessments			HR	12	\$135.00	\$1,620.00				
	6		Wetland / Stream Delineation			HR	60	\$135.00	\$8,100.00				
	7		CADD Technician			HR	60	\$110.00	\$6,600.00		\$0.00	\$0.00	
	8		Mileage			Mile	1000	\$0.67	\$670.00		\$0.00	\$0.00	
	9		Per Diem			Day	8	\$159.00	\$1,272.00		\$0.00	\$0.00	
G			PRE-BID CONFERENCE										
	1		Project Manager / Senior Engineer			HR	4	\$175.00	\$700.00		\$0.00	\$0.00	
	2		Mileage			Mile	0		\$0.00		\$0.00	\$0.00	
	3		Per Diem			Day	0		\$0.00		\$0.00	\$0.00	
H			PRE-CONSTRUCTION CONFERENCE										
	1		Project Manager / Senior Engineer			HR	3	\$175.00	\$525.00		\$0.00	\$0.00	
	2		Construction Inspector			HR	3	\$125.00	\$375.00		\$0.00	\$0.00	
	3		Mileage			Mile	0		\$0.00		\$0.00	\$0.00	
						SUBTOTAL PAGE 5 COST	\$73,192.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00
AML-7A (Revised 7/5/2023)													

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 6 of 6 Pages

SCHEDULE PER CONTRACT

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Clifftop Strip South (WV-			Page X of X Pages		
Contract Name: 2023 AML Contract S3											
Commodity Line: N/A											
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST

AML-7 (Revised 7/5/2023)	CONTRACT NAME: . Contract S3	GRAND TOTAL COST	\$276,252.50	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Clifftop (Road Fork) Drainage WV-7125

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Clifftop (Road Fork Drainage AML project. Proposed reclamation activities at the Clifftop (Road Fork) Drainage AML site include the construction of drainage control channels and culverts to safely carry water off-site, the excavation and installation of wet seals at thirteen (13) previously-identified collapsed/draining mine portals and a dry seal at one open portal receiving stream flow at a rate of approximately 50 gallons per minute, the regrading of a 0.25-acre coal refuse pile, cleanout and restoration of approximately 1,200 linear feet of stream channel, and conditioning and revegetation of all areas disturbed by construction. The Project will also require the construction of approximately 800 linear feet of access road and one temporary stream crossing. The completion of this project will remove AML hazards from land leased to a hunting club, as well as re-establishing and improving the water quality and natural morphology of a stream channel that currently flows into an open portal

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.



Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification and characterization, mine portal identification, and supplemental Phase I Habitat Assessment surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into a Categorical Exclusion Evaluation (CEE) document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. The Phase I Bat Surveys will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Air Quality
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Permit and Regional General Permit for Abandoned Mine Lands will be required for stream crossings and impacts to aquatic resources.
- Fieldwork includes initial wetland delineation and stream assessment, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula surveys of the mine portals, as necessary.
- NEPA documentation will be a Categorical Exclusion Evaluation.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.



Task No. 2 – Realty

Atlas has contracted the research of legal ownership of properties to Steptoe and Johnson (S&J). S&J will research legal ownership of the properties by conducting a through search of deed records at the Fayette County and Greenbrier County courthouses and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. S&J will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

S&J will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

S&J / Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

Atlas' costs include permitting / notification requirements with the National Park Service and coordination with the USACE.

Coordination with the U.S. Army Corps of Engineers' (USACE) Huntington Regulatory District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration efforts. A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for each individual stream crossing, and the USACE Regional General Permit for Abandoned Mine Lands will be required for authorization of proposed impacts to aquatic resources resulting from AML reclamation efforts.



There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

Atlas will assess the proposed site for potential impacts to the following areas:

- Water Resources / Water Quality
- Floodplain Management
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- Biological Resources

Atlas has made the following assumptions:

- Coordination with the U.S. Army Corps of Engineers' Huntington District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration work.
- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.
- Natural stream design engineering efforts may be conducted by Decota Consulting.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Triad's assumptions for this proposal are provided below:

- WVDOH MM109 permitting drilling in the road is required. Costs for obtaining this permit and for maintenance and protection of traffic during the field geotechnical exploration have been included.
- Triad assumes that we are not completing surveying or geotechnical evaluation of the potentially failing retaining wall at the toe of the slope that is potentially on CSX property at the direction of WVDEP.
- Triad assumes that monitoring of the landslide will continue for one month, including two full day mobilizations to the site each month and is presented as a lump sum fee in the costing spreadsheet. Should the WVDEP require monitoring beyond one month following the completion



of the reclamation and construction activities, a change order request will be provided before any additional monitoring activities commence.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

Geotechnical

Triad proposes to drill two (2) test borings to be used for the installation of piezometers at locations shown below for purpose of obtaining information on the water level in the mine. The borings will include Standard Penetration Testing of the soil overburden and NQ2 rock coring in bedrock. Upon completion of the borings, Triad will install piezometers into the mined-out coal seam. Triad will prepare a geotechnical report summarizing their findings. Our planned scope of services is more fully discussed below.



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing and rock coring through the base of the mined-out coal seam. Considering boring may encounter coal pillars, Triad proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:



Boring No	Description	Soil Drilling (L.F.)	Rock Drilling (L.F.)	Piezometer Pipe (L.F.)	Surface Elevation	Coal Seam Elevation/ Portal Elevation	Termination Criteria	Notes/Assumptions
PZ-1	Piezometer	30	150	60	2320	2240-2280/2284	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-1 to DI-4. Assuming 10 feet of soil and 50 feet of rock. Assuming 3 attempts should we encounter solid coal on first 2 attempts.
PZ-2	Piezometer	30	120	50	2310	2240-2280/2284	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-5. Assuming 10 feet of soil and 40 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
		60	270	110				

The piezometers will consist of a 1.5-inch diameter PVC pipe (minimum) with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective cover will be installed at the ground surface. The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.

We anticipate that access to the site will be from Lower Road Fork, County Route 11/1. We assume that permission to access the site and perform the necessary clearing operations will be obtained by Atlas. We have assumed that access will not require encroachment permitting or any maintenance of protection of traffic. A tracked excavator will be required for clearing trees and brush to access each boring location. In addition, the tracked excavator will be utilized for winching and reclamation/restoration operations. Based on the planned boring locations, we anticipate that an access road approximately 1,500 feet long will be required. Based on an assumed 10-to-12-foot width, we estimate approximately 15,000 to 18,000 square feet of disturbance. A one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover will be performed. Vegetative growth is not guaranteed. The approximate location of the access road is illustrated on the above image and location plan. All access and drill pads will be regraded to as close to original contours as possible.

Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter.

Task No. 4 - Construction Oversight



Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Clifftop Drainage (Road Fork) AML Site consist of five-day work weeks for twenty six (26) weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Clifftop (Road Fork) Drainage; WV-7125 AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

ATTN: Clayton K. Roderick

VENDOR: ATC Group Services LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

APPLICATION NUMBER: Clifftop (Road Fork) Drainage (WV-7125)

PUR. ORD. NO.:

CONTRACT NAME: 2023 AML Contract S3

OASIS VENDOR CUSTOMER NUMBER: 189555

COMMODITY LINE	PROJECT NO.	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
3	EPAM24003	Professional Svcs - Clifftop (Road Fork) Dr.	\$0.00
		TOTAL AMOUNT DUE THIS INVOICE	\$0.00

DATES OF SERVICE: FROM TO

DATE OF APPLICATION FOR PYMT:

ORIGINAL CONTRACT SUM \$494,864.84
NET CHANGE BY CHANGE ORDERS \$0.00
TOTAL CONTRACT SUM TO DATE \$494,864.84
TOTAL BILLED TO DATE \$0.00
LESS PREVIOUS PAYMENT TO DATE \$0.00
CURRENT PAYMENT DUE \$0.00

INVOICE TYPE: REG. [X]
NO. 1

% COMPLETE: \$0.00 0.00%
\$494,864.84

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES | | NO [X]

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

SIGNATURES AND DATES:

REALTY REPRESENTATIVE

PLANNING REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

VENDOR SIGNATURE AND DATE

VENDOR PRINTED NAME

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Clifftop (Road Fork) Drain						Page 2 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 3													
Project Name: Professional Svcs - Clifftop (Road Fork) Dr.													
SCHEDULE PER CONTRACT						WORK COMPLETED							
						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST		
TASK I: NEPA & ESA													
A	Agency Coordinations (including Office Work, AMLNET, etc.)												
1	Project Manager / Senior Engineer	HR	16	\$190.00	\$3,040.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Technical Scientist	HR	12	\$150.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00		
3	Planning / Technical Specialist	HR	24	\$135.00	\$3,240.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
B	Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)												
1	Project Manager / Senior Engineer	HR	0	\$190.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Technical Scientist	HR	4	\$150.00	\$600.00		\$0.00		\$0.00	0.0	\$0.00		
3	Planning / Technical Specialist	HR	16	\$135.00	\$2,160.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mileage	Mile	500	\$0.67	\$335.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	2	\$159.00	\$318.00		\$0.00		\$0.00	0.0	\$0.00		
C	Studies, Surveys & Mitigation Plans (as applicable)												
1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00		
2	Wetland/Stream delineation and portal assessment	HR	0	\$135.00	\$0.00		\$0.00		\$0.00				
3	WVWRAM Assessments	HR	0	\$135.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
4	Ph I Hibernacula Surveys	LS	1	\$2,800.00	\$2,800.00		\$0.00		\$0.00	0.0	\$0.00		
5	Equipment/Lodging	LS	1	\$2,100.00	\$2,100.00								
6	Mileage	Mile	500	\$0.67	\$335.00		\$0.00		\$0.00	0.0	\$0.00		
7	Per Diem	Day	4	\$159.00	\$636.00		\$0.00		\$0.00	0.0	\$0.00		
D	CATEX / EA / FONSI / EIS												
1	Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Technical Scientist	HR	32	\$135.00	\$4,320.00		\$0.00		\$0.00	0.0	\$0.00		
3	Planning / Technical Specialist	HR	40	\$105.00	\$4,200.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
SUBTOTAL PAGE 2 COST					\$29,304.00	SUBTOTAL PAGE 2 PREVIOUS		\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION		\$0.00	SUBTOTAL PAGE 2 TO DATE	

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Clifftop (Road Fork) Drain			Page 3 of 6 Pages		
Contract Name: 2023 AML Contract S3											
Commodity Line: 3											
Project Name: Professional Svcs - Clifftop (Road Fork) Dr.						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	
TASK II: REALTY											
A		Exploratory Rights of Entry (EROE)									
	1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0 \$0.00
	2	Realty Agent				\$0.00					
	a	Courthouse Work	HR	12	\$135.00	\$1,620.00		\$0.00		\$0.00	0.0 \$0.00
	b	Field Reconnaissance / Landowner Correspondence	HR	12	\$135.00	\$1,620.00		\$0.00		\$0.00	0.0 \$0.00
	c	Office Work / AMLNET	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0 \$0.00
	3	Mileage	Mile	300	\$0.67	\$201.00		\$0.00		\$0.00	0.0 \$0.00
	4	Per Diem	Day	1	\$59.00	\$59.00		\$0.00		\$0.00	0.0 \$0.00
B		Construction Rights of Entry (CROE)									
	1	Project Manager / Senior Engineer	HR	6	\$135.00	\$0.00		\$0.00		\$0.00	0.0 \$0.00
	2	Realty Agent									
	a	Courthouse Work	HR	6	\$135.00	\$810.00		\$0.00		\$0.00	0.0 \$0.00
	b	Field Reconnaissance / Landowner Correspondence	HR	6	\$135.00	\$810.00		\$0.00		\$0.00	0.0 \$0.00
	c	Office Work / AMLNET	HR	6	\$135.00	\$810.00		\$0.00		\$0.00	0.0 \$0.00
	3	Mileage	Mile	300	\$0.67	\$201.00		\$0.00		\$0.00	0.0 \$0.00
	4	Per Diem	Day	1	\$59.00	\$59.00		\$0.00		\$0.00	0.0 \$0.00
C		Pre-Bid Conference									
	1	Realty Agent	HR	6	\$135.00	\$810.00		\$0.00		\$0.00	0.0 \$0.00
	2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0 \$0.00
D		Pre-Construction Conference									
	1	Realty Agent	HR	6	\$135.00	\$810.00		\$0.00		\$0.00	0.0 \$0.00
	2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0 \$0.00
					SUBTOTAL PAGE 3 COST	\$11,170.00	SUBTOTAL PAGE 3 PREVIOUS	\$0.00	SUBTOTAL PAGE 3 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 3 TO DATE \$0.00
AML-7A (Revised 7/5/2023)											

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Clifftop (Road Fork) Drain			Page 4 of 6 Pages		
Contract Name: 2023 AML Contract S3											
Commodity Line: 3											
Project Name: Professional Svcs - Clifftop (Road Fork) Dr.						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
	1	Project Manager / Senior Engineer	HR	32	\$190.00		\$0.00		\$0.00	0.0	\$0.00
	2	Staff Engineer	HR	34	\$135.00		\$0.00		\$0.00	0.0	\$0.00
	3	Senior Engineer	HR	32	\$190.00						
	4	Environmental Scientist	HR	8	\$135.00						
	5	Mileage	Mile	500	\$0.67		\$0.00		\$0.00	0.0	\$0.00
	6	Per Diem	Day	0	\$159.00		\$0.00		\$0.00	0.0	\$0.00
B	SURVEYING & MAPPING										
	1	Project Manager	HR	12	\$190.00		\$0.00		\$0.00	0.0	\$0.00
	2	Professional Surveyor / Chief Surveyor	HR	26	\$150.00		\$0.00		\$0.00	0.0	\$0.00
	3	Survey Crew (3-Man)	HR	120	\$240.00		\$0.00		\$0.00	0.0	\$0.00
	4	Senior Technician (CAD - Base Mapping)	HR	49	\$110.00		\$0.00		\$0.00	0.0	\$0.00
	5	Topographic, Planimetric and Check Surveying	Acre	12	\$125.00		\$0.00		\$0.00	0.0	\$0.00
	6	Mileage	Mile	1952	\$0.67		\$0.00		\$0.00	0.0	\$0.00
	7	ATV Support Vehicle	Day	0	\$250.00		\$0.00		\$0.00	0.0	\$0.00
	8	GNSS Equipment Rental	MO	1	\$500.00		\$0.00		\$0.00	0.0	\$0.00
C	GEOTECHNICAL INVESTIGATION										
	1	Project Manager / Senior Engineer	HR	16	\$150.00		\$0.00		\$0.00	0.0	\$0.00
	2	Senior Engineer	HR	16	\$185.00		\$0.00		\$0.00	0.0	\$0.00
	3	Geotechnical Engineer / Geologist	HR	80	\$125.00		\$0.00		\$0.00	0.0	\$0.00
	4	Mobilization / Demobilization	LS	1	\$7,000.00		\$0.00		\$0.00	0.0	\$0.00
	5	Soil Augering with Sampling	LF	60	\$30.00		\$0.00		\$0.00	0.0	\$0.00
	6	Rock Coring	LF	270	\$42.00		\$0.00		\$0.00	0.0	\$0.00
	7	Water Hauling	Day	5	\$600.00		\$0.00		\$0.00	0.0	\$0.00
	8	Heavy Equipment	HR	30	\$195.00		\$0.00		\$0.00	0.0	\$0.00
	9	Piezometer Installation	LF	110	\$40.00		\$0.00		\$0.00	0.0	\$0.00
	10	Reclamation	LS	1	\$5,500.00		\$0.00		\$0.00	0.0	\$0.00
	11	Geotechnical Investigation Report	LS	1	\$5,700.00						
	12	Mileage	Mile	600	\$0.67						
	13	Lockable Protective Cover	EAS	2	\$250.00		\$0.00		\$0.00	0.0	\$0.00
	14	Flaggers for Maintenance and Protection of Traffic	Day	0	\$1,900.00		\$0.00		\$0.00	0.0	\$0.00
				SUBTOTAL PAGE 4 COST	\$122,694.84	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00
AML-7A (Revised 7/5/2023)											

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Clifftop (Road Fork) Drain						Page 5 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 3													
Project Name: Professional Svcs - Clifftop (Road Fork) Dr.						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST		
TASK III: DESIGN (CONTINUED)													
D	ANALYSIS AND DESIGN												
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00		
2	Geotechnical Engineer	HR	38	\$150.00	\$5,700.00		\$0.00		\$0.00	0.0	\$0.00		
3	Envirnmental Specialist	HR	40	\$135.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00		
4	Staff Engineer	HR	16	\$135.00	\$2,160.00		\$0.00		\$0.00	0.0	\$0.00		
5	CADD Technician	HR	90	\$110.00	\$9,900.00		\$0.00		\$0.00	0.0	\$0.00		
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE												
1	Project Manager / Senior Engineer	HR	16	\$190.00	\$3,040.00		\$0.00		\$0.00	0.0	\$0.00		
2	Senior Scientist	HR	20	\$150.00	\$3,000.00		\$0.00		\$0.00	0.0	\$0.00		
3	Envirnmental Specialist	HR	60	\$105.00	\$6,300.00		\$0.00		\$0.00	0.0	\$0.00		
4	Staff Engineer	HR	12	\$150.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00		
5	CADD Technician	HR	80	\$110.00	\$8,800.00		\$0.00		\$0.00	0.0	\$0.00		
F	PERMITTING												
1	Project Manager / Senior Engineer	HR	90	\$190.00	\$17,100.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Environmental Scientist	HR	180	\$135.00	\$24,300.00		\$0.00		\$0.00	0.0	\$0.00		
3	(a) Environmental Assessment - Senior Scientist	HR	32	\$150.00	\$4,800.00								
	(b) Environmental Assessment - Environmental Specialist	HR	40	\$105.00	\$4,200.00								
4	WVDEP AML RGP/USACE Coord	HR	32	\$150.00	\$4,800.00								
5	CADD Technician	HR	180	\$110.00	\$19,800.00								
6	Mailings	HR	12	\$135.00	\$1,620.00								
7	Mileage	Mile	1000	\$0.67	\$670.00		\$0.00		\$0.00	0.0	\$0.00		
8	Per Diem	Day	6	\$159.00	\$954.00		\$0.00		\$0.00	0.0	\$0.00		
G	PRE-BID CONFERENCE												
1	Project Manager / Senior Engineer	HR	4	\$175.00	\$700.00		\$0.00		\$0.00	0.0	\$0.00		
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
H	PRE-CONSTRUCTION CONFERENCE												
1	Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00	0.0	\$0.00		
2	Construction Inspector	HR	3	\$125.00	\$375.00		\$0.00		\$0.00	0.0	\$0.00		
3	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
				SUBTOTAL PAGE 5 COST	\$129,744.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00		
AML-7A (Revised 7/5/2023)													

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 6 of 6 Pages

Commodity Line: 3

WORK COMPLETED

SCHEDULE PER CONTRACT							PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION			UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK IV: CONSTRUCTION OVERSIGHT													
A		Construction Inspection											
	1	Project Manager / Senior Engineer			HR	100	\$190.00	\$19,000.00	\$0.00	\$0.00	0.0	\$0.00	
	2	Construction Inspector											
	a	Construction Inspection			HR	1040	\$125.00	\$130,000.00	\$0.00	\$0.00	0.0	\$0.00	
	b	Office Work / AMLNET			HR	100	\$125.00	\$12,500.00	\$0.00	\$0.00	0.0	\$0.00	
	c	Mileage			Mile	12000	\$0.67	\$8,040.00	\$0.00	\$0.00	0.0	\$0.00	
	d	Per Diem			Day	130	\$159.00	\$20,670.00	\$0.00	\$0.00	0.0	\$0.00	
TASK V: POST-CONSTRUCTION OVERSIGHT													
A		FIELD VISITS / INSPECTIONS											
	1	Project Manager / Senior Engineer			HR	36	\$190.00	\$6,840.00	\$0.00	\$0.00	0.0	\$0.00	
	2	Construction Inspector			HR	36	\$125.00	\$4,500.00	\$0.00	\$0.00	0.0	\$0.00	
	3	Mileage			Mile	600	\$0.67	\$402.00	\$0.00	\$0.00	0.0	\$0.00	

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Clifftop (Road Fork) Drain			Page X of X Pages		
Contract Name: 2023 AML Contract S3											
Commodity Line: N/A											
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST

AML-7 (Revised 7/5/2023)	CONTRACT NAME: - Contract S3	GRAND TOTAL COST	\$494,864.84	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Crosier Road (GA Pacific) Portals WV-5388 and WV-2694

Greenbrier County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Crosier Road (Georgia Pacific) Portals AML project. Proposed reclamation activities at the Crosier Road (Georgia Pacific) Portals AML site include the construction of drainage control channels and culverts to carry water safely off site, the excavation and installation of appropriate seals at sixteen (16) previously-identified mine portals located along an existing Georgia Pacific access road, the regrading and backfill of approximately 4,250 linear feet (LF) of highwall (ranging from 25 to 60 feet in height) at four (4) locations to establish the estimated original contours, the draining and reclamation of four (4) water impoundments totaling over 1,900 LF at the base of the highwall areas, the regrading of a two-acre refuse pile eroding downward onto the right-of-way of an active railroad bed used by Georgia Pacific, and conditioning and revegetation of all areas disturbed by construction. The project will also require the construction of approximately 1,700 linear feet of access road. The completion of this project will remove AML hazards from active timbering landforms, and from land leased to a hunting club. It will also prevent potential damage to the access road and railroad from a future blowout, as well as eliminating the fire hazard risk associated with the coal refuse pile.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their



ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification and characterization, mine portal identification, and supplemental Phase I Potential Hibernaculum surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results (WV SHPO) from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an Environmental Assessment (EA) document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. The Phase I bat assessments will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Water Resources / Water Quality
- Floodplain Management
- Air Quality
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Biological Resources
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A Regional General Permit for Abandoned Mine Lands will be required for impacts to aquatic resources.
- Fieldwork includes initial wetland delineation and stream assessment, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula surveys of the mine portals, as necessary.



- NEPA documentation will be an Environmental Assessment.
- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Stream grouting will be limited to areas where other stabilization methodologies are not practicable.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.

Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Greenbrier County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

Coordination with the U.S. Army Corps of Engineers' (USACE) Huntington Regulatory District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream and wetland delineations required at the proposed Crosier Road AML Site.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.



There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental.

Triad's assumptions for this proposal are provided below:

- No WVDOH MM109 permitting drilling within the access road right-of-way is required. An existing access road will be utilized for the exploration and proposed reclamation activities of the site.
- No reclamation activities are proposed within the right-of-way of the railroad.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings



- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

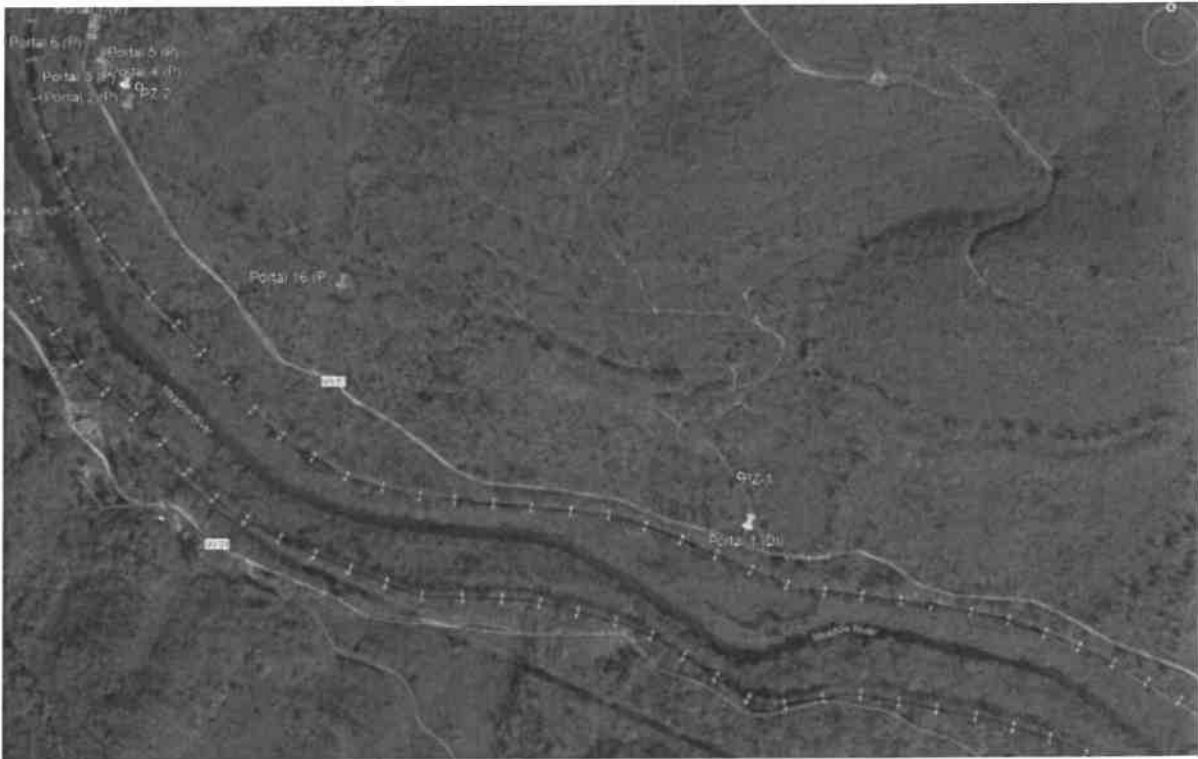
Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

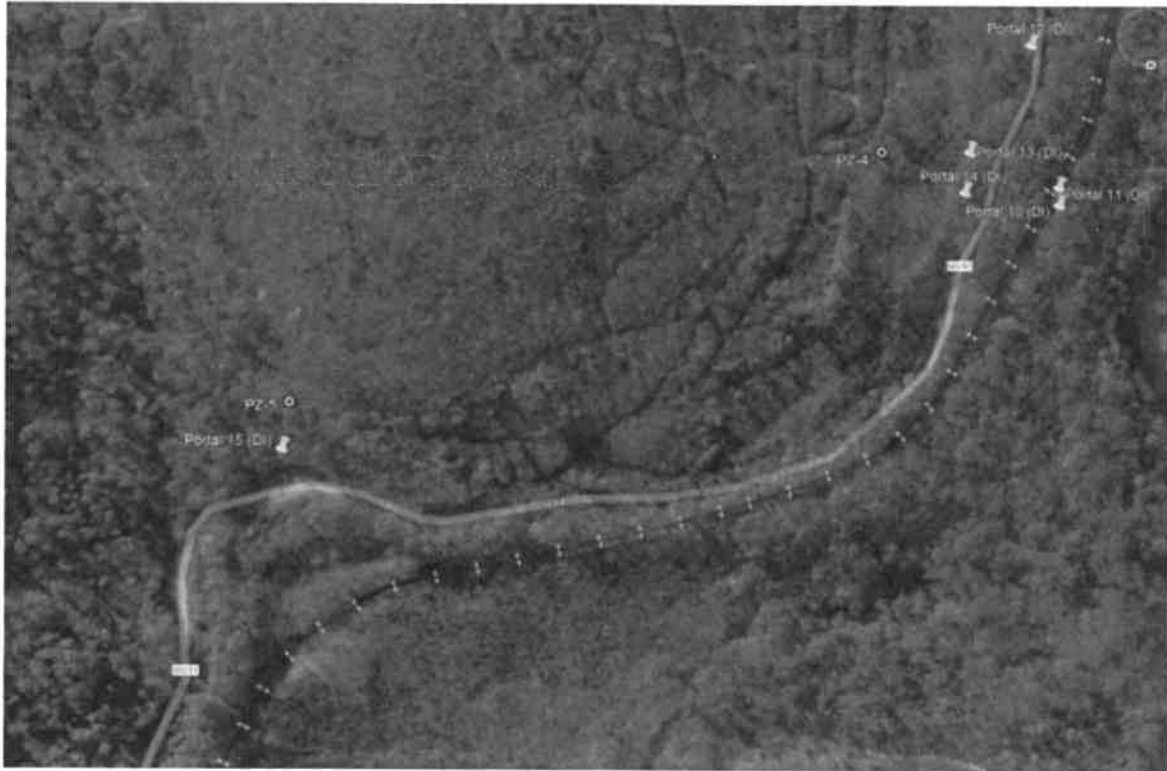
Geotechnical

Triad proposes to drill five (5) test borings to be used for the installation of piezometers at locations shown below for the purpose of obtaining information on the water level in the mine. The borings will include Standard Penetration Testing of the soil overburden and NQ2 rock coring in bedrock. Upon completion of the borings, we will install piezometers into the mined-out coal seam. TRIAD will prepare a geotechnical report summarizing our findings. Their planned scope of services is more fully discussed below.

ATLAS



ATLAS



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing and rock coring through the base of the mined-out coal seam. Considering boring may encounter coal pillars, Triad proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:



Boring No	Description	Soil Drilling with standard sampling (L.F.)	Rock Drilling (L.F.)	Piezometer Pipe (L.F.)	Surface Elevation	Portal Elevation	Termination Criteria	Notes/Assumptions
PZ-1	Piezometer	15	135	50	2475	2425	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near Portal 1. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-2	Piezometer	15	135	50	2585	2535	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near Portals 2-7. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-3	Piezometer	15	135	50	2570	2520	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near Portals 8 and 9. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-4	Piezometer	15	135	50	2560	2510	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near Portals 12-14. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-5	Piezometer	15	135	50	2610	2560	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near Portal 15. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
		75	675	250				

The piezometers will consist of a 1.5-inch diameter PVC pipe with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective cover will be installed at the ground surface. The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.

Access to this site will be from County Route 60/31 (Crosier Road) and will not include obtaining a West Virginia Department of Highways MM109 highway encroachment permit. We anticipate that access will require the use of an excavator to make roads and clear brush. After completion of drilling, we will perform restoration which includes replacing any earth moved with an excavator and mulching and seeding areas where the ground has been disturbed. The estimated area of seeding and mulching is 5,000 feet by 12 feet. We have not included the cost for temporary erosion protection prior to cutting roads at the site. No creek crossings are

assumed for this proposal. A one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover will be performed. Vegetative growth is not guaranteed.

Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However,



it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Crosier Road AML Site consist of five-day work weeks for twenty six (26) weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Crosier Road AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: Crosier Road Portals and Highwall (WV5388 & WV-2694)

PUR. ORD. NO.: _____

CONTRACT NAME: 2023 AML Contract S3

COMMODITY LINE	PROJECT NO.:	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
4	EPAM21027	Professional Svcs - Crozier Rd (G.A. Pacific) P	
		TOTAL AMOUNT DUE THIS INVOICE	\$0.00

INVOICE TYPE: REG. [**X**]
NO. 1

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES [] NO [X]

SIGNATURES AND DATES:

REALTY REPRESENTATIVE

PLANNING REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

AML-7 (Revised 7/5/2023)

ATTN: Clayton K. Roderick

VENDOR: ATC Group Services LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

OASIS VENDOR CUSTOMER NUMBER: 189555

DATE OF SERVICE: FROM _____ TO _____

DATE OF APPLICATION FOR PYMT: _____

ORIGINAL CONTRACT SUM	\$480,604.00
NET CHANGE BY CHANGE ORDERS	\$0.00
TOTAL CONTRACT SUM TO DATE	\$480,604.00
TOTAL BILLED TO DATE	\$0.00
LESS PREVIOUS PAYMENT TO DATE	\$0.00
CURRENT PAYMENT DUE	\$0.00

% COMPLETE:	<u>\$0.00</u>	0.00%
	\$480,604.00	

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

VENDOR SIGNATURE AND DATE

VENDOR PRINTED NAME

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Crosier Road Portals and			Page 2 of 6 Pages		
Contract Name: 2023 AML Contract S3											
Commodity Line: 4											
Project Name: Professional Svcs - Crozier Rd (G.A. Pacific) Portals & HW						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	
TASK 1: NEPA & ESA											
A		Agency Coordinations (including Office Work, AMLNET, etc)									
	1	Project Manager / Senior Engineer		HR	10	\$190.00	\$1,900.00	\$0.00	\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist		HR	5	\$135.00	\$675.00	\$0.00	\$0.00	0.0	\$0.00
	3	Planning / Technical Specialist		HR	30	\$135.00	\$4,050.00	\$0.00	\$0.00	0.0	\$0.00
	4	Mileage		Mile	0	\$0.67	\$0.00	\$0.00	\$0.00	0.0	\$0.00
	5	Per Diem		Day	0	\$159.00	\$0.00	\$0.00	\$0.00	0.0	\$0.00
B		Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc)									
	1	Project Manager / Senior Engineer		HR	4	\$190.00	\$760.00	\$0.00	\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist		HR	0	\$135.00	\$0.00	\$0.00	\$0.00	0.0	\$0.00
	3	Planning / Technical Specialist		HR	16	\$135.00	\$2,160.00	\$0.00	\$0.00	0.0	\$0.00
	4	Mileage		Mile	2	\$100.00	\$200.00	\$0.00	\$0.00	0.0	\$0.00
	5	Per Diem		Day	2	\$159.00	\$318.00	\$0.00	\$0.00	0.0	\$0.00
C		Studies, Surveys & Mitigation Plans (as applicable)									
	1	Project Manager / Senior Engineer		HR	0	\$180.00	\$0.00	\$0.00	\$0.00	0.0	\$0.00
	2	Bat Survey		LS	1	\$2,750.00	\$2,750.00	\$0.00	\$0.00	0.0	\$0.00
	3	Planning / Technical Specialist		HR	30	\$135.00	\$4,050.00	\$0.00	\$0.00	0.0	\$0.00
	4	Mileage		Mile	4	\$100.00	\$400.00	\$0.00	\$0.00	0.0	\$0.00
	5	Per Diem		Day	6	\$159.00	\$954.00	\$0.00	\$0.00	0.0	\$0.00
D		CATEX / EA / FONSI / EIS									
	1	Project Manager / Senior Engineer		HR	4	\$190.00	\$760.00	\$0.00	\$0.00	0.0	\$0.00
	2	Engineer / Technical Scientist		HR	26	\$135.00	\$3,510.00	\$0.00	\$0.00	0.0	\$0.00
	3	Planning / Technical Specialist		HR	60	\$105.00	\$6,300.00	\$0.00	\$0.00	0.0	\$0.00
	4	Mileage		Mile	0	\$0.67	\$0.00	\$0.00	\$0.00	0.0	\$0.00
	5	Per Diem		Day	0	\$159.00	\$0.00	\$0.00	\$0.00	0.0	\$0.00
SUBTOTAL PAGE 2 COST					\$28,787.00	SUBTOTAL PAGE 2 PREVIOUS	\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 2 TO DATE	\$0.00

AML-7A (Revised 7/5/2025)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Crosier Road Portals and				Page 4 of 6 Pages	
Contract Name: 2023 AML Contract S3											
Commodity Line: 4											
Project Name: Professional Svcs - Crozier Rd (G.A. Pacific) Portals & HW						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
1	Project Manager	HR	20	\$175.00	\$3,500.00		\$0.00		\$0.00	0.0	\$0.00
2	Senior Engineer	HR	20	\$185.00	\$3,700.00		\$0.00		\$0.00	0.0	\$0.00
3	Staff Engineer	HR	16	\$125.00	\$2,000.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	4	\$159.00	\$636.00		\$0.00		\$0.00	0.0	\$0.00
B	SURVEYING & MAPPING										
1	Project Manager	HR	12	\$150.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Professional Surveyor / Chief Surveyor	HR	32	\$150.00	\$4,800.00		\$0.00		\$0.00	0.0	\$0.00
3	Survey Crew (3-Man)	HR	126	\$240.00	\$30,240.00		\$0.00		\$0.00	0.0	\$0.00
4	Senior Technician (CAD - Base Mapping)	HR	60	\$110.00	\$6,600.00		\$0.00		\$0.00	0.0	\$0.00
5	Topographic, Planimetric and Check Surveying	HR	24	\$125.00	\$3,000.00		\$0.00		\$0.00	0.0	\$0.00
6	Mileage	Mile	2050	\$0.67	\$1,373.50		\$0.00		\$0.00	0.0	\$0.00
7	ATV Support Vehicle	Day	0	\$250.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
8	GNSS Equipment Rental	MO	1	\$300.00	\$300.00		\$0.00		\$0.00	0.0	\$0.00
C	GEOTECHNICAL INVESTIGATION										
1	Project Manager	HR	16	\$150.00	\$2,400.00		\$0.00		\$0.00	0.0	\$0.00
2	Senior Engineer	HR	24	\$185.00	\$4,440.00		\$0.00		\$0.00	0.0	\$0.00
3	Staff Engineer / Geologist	HR	175	\$125.00	\$21,875.00		\$0.00		\$0.00	0.0	\$0.00
4	Mobilization / Demobilization	LS	1	\$11,610.00	\$11,610.00		\$0.00		\$0.00	0.0	\$0.00
5	Soil Augering with Sampling	LF	75	\$30.00	\$2,250.00		\$0.00		\$0.00	0.0	\$0.00
6	Rock Coring	LF	675	\$42.00	\$28,350.00		\$0.00		\$0.00	0.0	\$0.00
7	Water Hauling	Day	10	\$600.00	\$6,000.00		\$0.00		\$0.00	0.0	\$0.00
8	Heavy Equipment	HR	80	\$195.00	\$15,600.00		\$0.00		\$0.00	0.0	\$0.00
9	Piezometer Installation	LF	250	\$40.00	\$10,000.00		\$0.00		\$0.00	0.0	\$0.00
10	Reclamation	LS	1	\$10,000.00	\$10,000.00		\$0.00		\$0.00	0.0	\$0.00
11	Geotechnical Investigation Report	LS	1	\$7,600.00	\$7,600.00						
12	Mileage	Mile	1650	\$0.67	\$1,105.50						
13	Lockable Protective Cover	EA	5	\$250.00	\$1,250.00		\$0.00		\$0.00	0.0	\$0.00
14	Flaggers for Maintenance & Protection of Traffic	LS	0	\$1,900.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
				SUBTOTAL PAGE 4 COST	\$180,430.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00

AML-7A (Revised 7/5/2025)

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Crosier Road Portals and						Page 5 of 6 Pages		
Contract Name: 2023 AML Contract S3														
Commodity Line: 4														
Project Name: Professional Svcs - Crozier Rd (G.A. Pacific) Portals & HW						WORK COMPLETED								
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE				
TASK	DESCRIPTION				UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN (CONTINUED)														
D			ANALYSIS AND DESIGN											
	1		Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00		\$0.00		\$0.00		0.0	\$0.00
	2		Geotechnical Engineer	HR	2	\$150.00	\$300.00		\$0.00		\$0.00		0.0	\$0.00
	3		Enviornmental Specialist	HR	48	\$135.00	\$6,480.00		\$0.00		\$0.00		0.0	\$0.00
	4		Staff Engineer	HR	0		\$0.00		\$0.00		\$0.00		0.0	\$0.00
	5		CADD Technician	HR	24	\$110.00	\$2,640.00		\$0.00		\$0.00		0.0	\$0.00
E			PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE											
	1		Project Manager / Senior Engineer	HR	4	\$190.00	\$760.00		\$0.00		\$0.00		0.0	\$0.00
	2		Geotechnical Engineer	HR	0		\$0.00		\$0.00		\$0.00		0.0	\$0.00
	3		Enviornmental Specialist	HR	50	\$135.00	\$6,750.00		\$0.00		\$0.00		0.0	\$0.00
	4		Staff Engineer	HR	0		\$0.00		\$0.00		\$0.00		0.0	\$0.00
	5		CADD Technician	HR	116	\$110.00	\$12,760.00		\$0.00		\$0.00		0.0	\$0.00
F			PERMITTING											
	1		Project Manager / Senior Engineer	HR	60	\$175.00	\$10,500.00		\$0.00		\$0.00		0.0	\$0.00
	2		Engineer / Environmental Scientist	HR	54	\$150.00	\$8,100.00		\$0.00		\$0.00		0.0	\$0.00
	3		CADD Technician	HR	60	\$110.00	\$6,600.00		\$0.00		\$0.00		0.0	\$0.00
	4		Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00		0.0	\$0.00
	5		Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00		0.0	\$0.00
G			PRE-BID CONFERENCE											
	1		Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00		0.0	\$0.00
	2		Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00		0.0	\$0.00
	3		Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00		0.0	\$0.00
H			PRE-CONSTRUCTION CONFERENCE											
	1		Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00		0.0	\$0.00
	2		Construction Inspector	HR	3	\$125.00	\$375.00		\$0.00		\$0.00		0.0	\$0.00
	3		Mileage	Mile	0		\$0.00		\$0.00		\$0.00		0.0	\$0.00
						SUBTOTAL PAGE 5 COST	\$57,455.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00	
AML-7A (Revised 7/5/2023)														

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION												
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT												
Purchase Order No.: 0						Application No.: Crozier Road Portals and				Page 6 of 6 Pages		
Contract Name: 2023 AML Contract S3												
Commodity Line: 4												
Project Name: Professional Svcs - Crozier Rd (G.A. Pacific) Portals & HW						WORK COMPLETED						
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION				UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST
TASK IV: CONSTRUCTION OVERSIGHT												
A			Construction Inspection									
	1		Project Manager / Senior Engineer			HR	100	\$190.00	\$19,000.00			
		2	Construction Inspector									
		a	Construction Inspection			HR	1040	\$125.00	\$130,000.00			
		b	Office Work / AMLNET			HR	100	\$125.00	\$12,500.00			
		c	Mileage			Mile	12000	\$0.67	\$8,040.00			
		d	Per Diem			Day	130	\$159.00	\$20,670.00			
TASK V: POST-CONSTRUCTION OVERSIGHT												
A			FIELD VISITS / INSPECTIONS									
	1		Project Manager / Senior Engineer			HR	36	\$190.00	\$6,840.00			
	2		Construction Inspector			HR	36	\$125.00	\$4,500.00			
	3		Mileage			Mile	600	\$0.67	\$402.00			

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION													
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT													
Purchase Order No.: 0						Application No.: Crosier Road Portals and						Page X of X Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: N/A													
Project Name: N/A						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST		

AML-7 (Revised 7/5/2023)

CONTRACT NAME: . Contract S3

GRAND TOTAL COST	\$480,604.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			
x	x			
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Lookout (Moore) Subsidence WV-6951

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Lookout (Moore) Subsidence AML project. Proposed reclamation activities at the Lookout (Moore) Subsidence AML site include the construction of drainage control channels and culverts to carry water safely off-site from heavy mine discharges at two (2) mine portals/auger holes located within approximately 100 feet of county road WV-6951, as well as the excavation and proper sealing of the two (2) previously-identified mine portals, and the upgrade of up to 100 linear feet of access road to facilitate equipment access. Based upon the location of the portals, it appears that there is less than 10 feet of cover above their tops, making them likely to subside in the near future. Previous subsidence holes identified in 2018 show that the mine workings go underneath the county road. The county road is heavily used by locals and visitors to the Babcock area. Should a blowout or additional subsidence occur, it could damage the road leading to vehicle crashes or road closures.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the



WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up

correspondence will be provided as part of the permitting process. Following initial NEPA consultation, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification, mine portal identification, and supplemental Phase I Habitat Assessment surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into a Categorical Exclusion (CE) evaluation document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. The Phase I Bat Surveys will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Water Resources / Water Quality
- Floodplain Management
- Air Quality
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Biological Resources
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- Fieldwork includes initial wetland delineation and stream assessment, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula surveys of the mine portals, as necessary.
- NEPA documentation will be a Categorical Exclusion evaluation.
- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.



Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

Atlas' costs include permitting / notification requirements with the National Park Service (NPS) and coordination with the owner(s) of the rail line that encroaches the project limits. It is the responsibility of the WVDEP to incur the railroad flagger fees and permitting fees, if applicable.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:



- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will

utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard



Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

Geotechnical

Triad proposes to drill a minimum of one (1) test boring to be used for the installation of piezometers at locations shown below for purpose of obtaining information on the water level in the mine. The boring will include Standard Penetration Testing of the soil overburden and NQ2 rock coring in bedrock. Upon completion of the borings, Triad will install the piezometer into the mined-out coal seam. Triad will prepare a geotechnical report summarizing their findings. Our planned scope of services is more fully discussed below.



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing and rock coring through the base of the mined-out coal seam. Considering boring may encounter coal pillars, Triad proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:



Boring No	Description	Soil Drilling with standard sampling (L.F.)	Rock Drilling (L.F.)	Surface Elevation	Coal Seam Elevation/ Portal Elevation	Termination Criteria	Notes/Assumptions
PZ-1	Piezometer	15	120	2280	2230-2240/2249	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near P. Assuming 5 feet of soil and 40 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
		30	120				

The piezometer will consist of a 1.5-inch diameter PVC pipe with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective cover will be installed at the ground surface. The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring. All disturbed areas will be seeded and mulched. All access and drill pads will be regraded to as close to original contours as possible.

Access to this site will be from County Route 11 and will include accessing by an existing gravel drive approximately 500 feet and then up a slight grade approximately 300 feet within existing trees and brush. We anticipate that access will require the use of an excavator to grade an access road and clear existing trees and brush. After completion of drilling, we will perform restoration which includes re-grading any disturbed earth and a one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover. It should be noted that vegetative growth is not guaranteed. The estimated area of seeding and mulching is 300 feet by 12 feet. We have not included the cost for temporary erosion protection prior to cutting roads at the site. No stream crossings have been assumed for access to the boring locations for this site.

Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter.

Task No. 4 – Construction Oversight

Atlas and Triad will provided engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Lookout (Moore) Subsidence AML site consist of five-day work weeks for eight weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight



Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Lookout (Moore) Subsidence AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: Lookout (Moore) Subsidence (WV-6951)

PUR. ORD NO.: _____

CONTRACT NAME: 2023 AML Contract N(x)

OASIS VENDOR CUSTOMER NUMBER: 189555

DATE OF APPLICATION FOR PYMT: _____

CURRENT PAYMENT DUE	\$0.00
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VENDOR PRINTED NAME

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Lookout (Moore) Subside		Page 2 of 6 Pages			
Contract Name: 2023 AML Contract N(x)											
Commodity Line: 5											
Project Name: Professional Svcs - Lookout (Moore) Subsidence						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK 1: NEPA & ESA											
A	Agency Coordinations (including Office Work, AMLNET, etc.)										
1	Project Manager / Senior Engineer	HR	10	\$190.00	\$1,900.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	16	\$135.00	\$2,160.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
B Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)											
1	Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	16	\$135.00	\$2,160.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
C Studies, Surveys & Mitigation Plans (as applicable)											
1	Project Manager / Senior Engineer	HR	0	\$180.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
2	Bat Assessment	LS	1	\$800.00	\$800.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	40	\$135.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	500	\$0.67	\$335.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	6	\$59.00	\$354.00		\$0.00		\$0.00	0.0	\$0.00
D CATEX / EA / FONSI / EIS											
1	Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	12	\$135.00	\$1,620.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	40	\$105.00	\$4,200.00		\$0.00		\$0.00	0.0	\$0.00
4	CADD Technician	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
SUBTOTAL PAGE 2 COST					\$21,209.00	SUBTOTAL PAGE 2 PREVIOUS		\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION		\$0.00
SUBTOTAL PAGE 2 TO DATE					\$0.00	SUBTOTAL PAGE 2 TO DATE		\$0.00	SUBTOTAL PAGE 2 TO DATE		\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0

Contract Name: 2023 AML Contract N(x)

Commodity Line: 5

Project Name: Professional Svcs - Lookout (Moore) Subsidence

Application No.: Lookout (Moore) Subside

Page 3 of 6 Pages

WORK COMPLETED

SCHEDULE PER CONTRACT

SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK II: REALTY											
A	Exploratory Rights of Entry (EROE)										
1	Project Manager / Senior Engineer	HR	10	\$190.00	\$1,900.00		\$0.00		\$0.00	0.0	\$0.00
2	Realty Agent				\$0.00						
a	Courthouse Work	HR	2	\$135.00	\$270.00		\$0.00		\$0.00	0.0	\$0.00
b	Field Reconnaissance / Landowner Correspondence	HR	1	\$135.00	\$135.00		\$0.00		\$0.00	0.0	\$0.00
c	Office Work / AMLNET	HR	3	\$135.00	\$405.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	350	\$0.67	\$234.50		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$59.00	\$59.00		\$0.00		\$0.00	0.0	\$0.00
B	Construction Rights of Entry (CROE)										
1	Project Manager / Senior Engineer	HR	0	\$135.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
2	Realty Agent										
a	Courthouse Work	HR	2	\$135.00	\$270.00		\$0.00		\$0.00	0.0	\$0.00
b	Field Reconnaissance / Landowner Correspondence	HR	1	\$135.00	\$135.00		\$0.00		\$0.00	0.0	\$0.00
c	Office Work / AMLNET	HR	2	\$135.00	\$270.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	0	\$59.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
C	Pre-Bid Conference										
1	Realty Agent	HR	1	\$135.00	\$135.00		\$0.00		\$0.00	0.0	\$0.00
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
D	Pre-Construction Conference										
1	Realty Agent	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
					SUBTOTAL PAGE 3 COST		\$4,353.50	SUBTOTAL PAGE 3 PREVIOUS	\$0.00	SUBTOTAL PAGE 3 THIS APPLICATION	\$0.00
										SUBTOTAL PAGE 3 TO DATE	\$0.00

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Lookout (Moore) Subsidence		Page 4 of 6 Pages			
Contract Name: 2023 AML Contract N(x)											
Commodity Line: 5											
Project Name: Professional Svcs - Lookout (Moore) Subsidence						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
1	Project Manager	HR	16	\$175.00	\$2,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Senior Engineer	HR	16	\$185.00	\$2,960.00		\$0.00		\$0.00	0.0	\$0.00
3	Staff Engineer	Mile	16	\$125.00	\$2,000.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
B SURVEYING & MAPPING											
1	Project Manager / Senior Engineer	HR	16	\$175.00	\$2,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Professional Surveyor / Chief Surveyor	HR	14	\$150.00	\$2,100.00		\$0.00		\$0.00	0.0	\$0.00
3	Survey Crew (3-Man)	HR	36	\$240.00	\$8,640.00		\$0.00		\$0.00	0.0	\$0.00
4	Senior Technician (CAD - Base Mapping)	HR	26	\$110.00	\$2,860.00		\$0.00		\$0.00	0.0	\$0.00
5	Topographic, Planimetric and Check Surveying	HR	6	\$125.00	\$750.00		\$0.00		\$0.00	0.0	\$0.00
6	Mileage	Mile	500	\$0.67	\$335.00		\$0.00		\$0.00	0.0	\$0.00
7	ATC Support Vehicle	Day	0	\$250.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
8	GNSS Equipment Rental	MO	1	\$500.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00
C GEOTECHNICAL INVESTIGATION											
1	Project Manager	HR	12	\$150.00	\$1,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Senior Engineer	HR	24	\$185.00	\$4,440.00		\$0.00		\$0.00	0.0	\$0.00
3	Staff Engineer/Geologist	HR	50	\$125.00	\$6,250.00		\$0.00		\$0.00	0.0	\$0.00
4	Mobilization / Demobilization	LS	1	\$6,000.00	\$6,000.00		\$0.00		\$0.00	0.0	\$0.00
5	Soil Augering with Sampling	LF	15	\$30.00	\$450.00		\$0.00		\$0.00	0.0	\$0.00
6	Rock Coring	LF	120	\$42.00	\$5,040.00		\$0.00		\$0.00	0.0	\$0.00
7	Water Hauling	Day	2	\$600.00	\$1,200.00		\$0.00		\$0.00	0.0	\$0.00
8	Heavy Equipment	HR	10	\$195.00	\$1,950.00		\$0.00		\$0.00	0.0	\$0.00
9	Piezometer Installation	LF	50	\$40.00	\$2,000.00		\$0.00		\$0.00	0.0	\$0.00
10	Reclamation	LS	1	\$5,500.00	\$5,500.00		\$0.00		\$0.00	0.0	\$0.00
11	Geotechnical Investigation Report	LS	1	\$4,000.00	\$4,000.00		\$0.00		\$0.00	0.0	\$0.00
12	Mileage	Mile	600	\$0.67	\$402.00		\$0.00		\$0.00		
13	Lockable Protective Cover	EA	1	\$250.00	\$250.00		\$0.00		\$0.00		
14	Flaggers for Maintenance & Protection of Traffic	LS	0	\$1,900.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
				SUBTOTAL PAGE 4 COST	\$65,027.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0	Application No.: Lookout (Moore) Subside	Page 6 of 6 Pages
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Contract Name:	2023 AML Contract N(x)
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Commodity Line:	5
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Project Name:	Professional Svcs - Lookout (Moore) Subsidence	WORK COMPLETED
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				THIS	AMOUNT DUE THIS	
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SCHEDULE PER CONTRACT	PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE
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[illegible]

TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
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[illegible][illegible]

		Project Manager / Senior Engineer	HR	30	\$190.00	\$5,700.00	\$0.00	\$0.00	0.0	\$0.00
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[illegible]

	a	Construction Inspection	HR	320	\$125.00	\$40,000.00	\$0.00	\$0.00	0.0	\$0.00
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		b	Office Work / AMI NET	HR	30	\$125.00	\$3,750.00	\$0.00	\$0.00	0.0	\$0.00
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	0	Other Work / Traveling	Tax	50	\$125.00	\$0750.00	\$0.00	\$0.00	\$0.00	0.0	\$0.00
	-	TELEPHONE	X CH	6		\$0.00	\$0.00	\$0.00	\$0.00	0.0	\$0.00

		c	Mileage	Mile	0	\$0.00	\$0.00	\$0.00	0.0	\$0.00
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d	Per Diem	Day	4	\$159.00	\$636.00	\$0.00	\$0.00	0.0	\$0.00
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[illegible][illegible]

		Project Manager / Senior Engineer	HR	0	\$190.00	\$0.00	\$0.00	\$0.00	0.0	\$0.00
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2	Construction Inspector	HR	0	\$125.00	\$0.00	\$0.00	\$0.00	0.0	\$0.00
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3	Mileage	Mile	0	\$0.67	\$0.00	\$0.00	\$0.00	0.0	\$0.00
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[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

		PREVIOUS	APPLICATION		
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[illegible]

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Lookout (Moore) Subside			Page X of X Pages		
Contract Name: 2023 AML Contract N(x)											
Commodity Line: N/A											
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST

AML-7 (Revised 7/5/2023)

CONTRACT NAME: Contract N(x)

GRAND TOTAL COST	\$180,235.50	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Fayette Station Slide & Drainage *WV-4500*

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Fayette Station Slide and Drainage AML project. Proposed reclamation activities at the Fayette Station Slide and Drainage AML site include the construction of drainage control channels and culverts to carry water safely off site; the cleanout and reworking of approximately 3,200 linear feet (LF) of an existing roadside ditch; the reconstruction of a failing Gabion basket wall per the request of Mr. Charles Sellars, National Park Service (NPS) superintendent of the New River Gorge National Park and Reserve; the installation of two NPS-approved bat gates with wet seals (as applicable) at two previously-identified mine openings; the excavation of previously-installed and clogged wet seals and installation of new seals at two (2) previously-identified mine portals; the excavation and installation of appropriate seals at fifteen (15) previously-identified mine portals; the excavation and stabilization of five (5) landslide areas caused by portal drainage; and the reconstruction of approximately 7,400 LF of previously-damaged trail sections associated with the Fayette Station and Kaymoor Trail systems (trail system reconstruction stated in the *Fayette Station Slide and Drainage* OSM-51 spec sheet provided by the client). A landslide has developed above the Fayette Station road. Mine drainage from old abandoned deep mines has saturated the soils, causing instability and movement. This road is heavily used by tourists and numerous whitewater rafting companies. Access to the New River was completely blocked and approximately 2,300 cubic yards of unstable material is perched above the roadway. The project is located on property owned by the National Park Service, who has attempted several times to alleviate the issues, but it is more than they can handle, and have requested assistance. The completion of this project will remove AML hazards from NPS property and protect the safety of trail stewards and rafting personnel, as well as prevent damage to the road and adjacent railroad from a future slide.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:



Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, and the acquisition of Special Use Permits from NPS, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification and characterization, mine portal identification, and supplemental Phase I Potential Hibernaculum assessments (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an Environmental Assessment (EA) document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Floodplain Management
- Air Quality
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Biological Resources
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for each individual stream crossing.



- A USACE Regional General Permit for Abandoned Mine Lands will be required for authorization of impacts to aquatic resources.
- Fieldwork includes initial wetland delineation and stream assessment, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula surveys of the mine portals, as necessary.
- NEPA documentation will be an Environmental Assessment.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.

Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.



Atlas' costs include permitting / notification requirements with the National Park Service (NPS) and coordination with the owner(s) of the rail line that encroaches the project limits. It is the responsibility of the WVDEP to incur the railroad flagger fees and permitting fees, if applicable.

Coordination with the U.S. Army Corps of Engineers' (USACE) Huntington District, and supplemental Clean Water Act Section 404 federal permitting will be required for proposed impacts to federally-jurisdictional waters including streams, wetlands, and other jurisdictional surface waters. Consultation with USACE will be coordinated as needed. The Phase I Bat Surveys will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Water Resources / Water Quality
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters

Atlas has made the following assumptions:

- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Note: The West Virginia Department of Environmental Protection has requested that the reclamation design efforts not include gabion baskets.

Triad's assumptions for this proposal are provided below:

- In an effort to reduce project costs, and whenever possible, Triad surveyors propose to work 12-hour days to reduce the number of days of travel to/from site.



- WVDOH MM109 permitting for drilling is not required. Triad assumes that access to the drill locations will be from Fayette Station Road (CR82) but will not require installing or upgrading access roads. Triad assumes using existing trails (Kaymoor Trail and Fayetteville Trail managed by National Park Service), mine bench, and the bridge across Wolf Creek for access. Should access upgrades or permitting be needed beyond what is assumed in this proposal, Triad will submit a change order for the costs incurred.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.



Geotechnical

Triad proposes to drill four (4) test borings to be used for the installation of piezometers at locations shown below for purpose of obtaining information on the water level in the mine. The borings will include Standard Penetration Testing of the soil overburden and NQ2 rock coring in bedrock. Upon completion of the borings, Triad will install piezometers into the mined-out coal seam. Triad will prepare a geotechnical report summarizing their findings. Our planned scope of services is more fully discussed below.



ATLAS



Triad proposes to accomplish the test borings with a track- or ATV-mounted or a portable rotary auger drill rig and perform Standard Penetration Testing and rock coring through the base of the mined-out coal seam. Considering borings may encountered coal pillars, Triad proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. Triad has assumed only one offset hole for piezometer PZ-3 and PZ-4 due to the challenging access and the portable drill proposed. The proposed drilling depths are as follows:



Boring No	Description	Soil Drilling with standard sampling (L.F.)	Rock Drilling (L.F.)	Piezometer Pipe (L.F.)	Surface Elevation	Portal Elevation	Termination Criteria	Notes/Assumptions
PZ-1	Piezometer	15	135	50	1375	1325	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-1. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-2	Piezometer	15	135	50	1370	1320	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-17. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-3	Piezometer	10	90	50	1395	1345	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-9 to DI-12. Assuming 5 feet of soil and 45 feet of rock. Assuming 2 attempts should we encounter solid coal on first attempt.
PZ-4	Piezometer	10	90	50	1395	1345	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-3 and DI-4. Assuming 5 feet of soil and 45 feet of rock. Assuming 2 attempts should we encounter solid coal on first attempt.
		50	450	200				

The piezometers for PZ-1 and PZ-2 will consist of a 1.5-inch diameter PVC pipe (minimum) with a 10-foot screened section through the mined-out coal seam. Piezometers PZ-3 and PZ-4 will be installed in a 1-inch diameter PVC Pipe. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective cover will be installed at the ground surface. The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.

Access to borings PZ-1 and PZ-2 will include use of the Fayetteville Trail. We anticipate that access will require the use of an excavator to make roads and clear brush. After completion of drilling, we will perform restoration which includes replacing any earth moved with an excavator and mulching and seeding areas where the ground has been disturbed. The estimated area of seeding and mulching is 2,300 feet by 12 feet. The cost for temporary erosion protection prior to cutting roads at the site is not included. A one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover will be performed. Vegetative growth is not guaranteed. The approximate location of the access road is illustrated on the above image and location plan.



In order to obtain access to the boring locations PZ-3 and PZ-4, Wolf Creek will need to be crossed. We understand that this will not require a permit for the stream since Triad is planning to use the existing bridge associated with the Kaymoor Trail and use a portable drill rig that can be broken down and carried to the boring locations without causing overloading of the existing bridge. It should be noted that the existing bridge width and weight requirement does not allow for access to the site with Triad's conventional drill rigs. In addition, the use of the Kaymoor Trail from the opposite side has been explored but due to other bridges and landslides is not considered accessible without major improvements that are outside the scope of work of Triad for Geotechnical Services.

Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Fayette Station Slide and Drainage AML Site consist of five-day work weeks for twenty six (26) weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Fayette Station Slide and Drainage; WV-4500 AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: Fayette Station Slide and Drainage (WV-4500)

PUR. ORD. NO.: _____

CONTRACT NAME: 2023 AML Contract S3

COMMODITY LINE	PROJECT NO.	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
6	EPAM24010	Professional Svcs - Fayette Station Slide	
TOTAL AMOUNT DUE THIS INVOICE			\$0.00

INVOICE TYPE: REG. ☒]
NO. 1

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES ☐] NO ☒]

SIGNATURES AND DATES:

REALTY REPRESENTATIVE

PLANNING REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

ATTN: Clayton K. Roderick

VENDOR: ATC Group Services LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

OASIS VENDOR CUSTOMER NUMBER: 189555

DATES OF SERVICE: FROM _____ TO _____

DATE OF APPLICATION FOR PYMT: _____

ORIGINAL CONTRACT SUM	<u>\$589,191.50</u>
NET CHANGE BY CHANGE ORDERS	<u>\$0.00</u>
TOTAL CONTRACT SUM TO DATE	<u>\$589,191.50</u>
TOTAL BILLED TO DATE	<u>\$0.00</u>
LESS PREVIOUS PAYMENT TO DATE	<u>\$0.00</u>
CURRENT PAYMENT DUE	<u>\$0.00</u>

% COMPLETE: \$0.00 0.00%
\$589,191.50

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

VENDOR SIGNATURE AND DATE

VENDOR PRINTED NAME

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 2 of 6 Pages

Application No. Fayette Station Slide and

WORK COMPLETED

WORK COMPLETED

SCHEDULE PER CONTRACT

AML-7A (Revised 7/5/2023)

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Application No.: Fayette Station Slide and Page 3 of 6 Pages

Project Name:	Professional Svcs - Fayette Station Slide
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PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE
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AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION												
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT												
Purchase Order No.: 0						Application No.: Fayette Station Slide and 1			Page 5 of 6 Pages			
Contract Name: 2023 AML Contract S3												
Commodity Line: 6												
Project Name: Professional Svcs - Fayette Station Slide						WORK COMPLETED						
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN (CONTINUED)												
D		ANALYSIS AND DESIGN										
	1	Project Manager / Senior Engineer	HR	16	\$190.00	\$3,040.00		\$0.00		\$0.00	0.0	\$0.00
	2	Staff Engineer	HR	8	\$150.00	\$1,200.00		\$0.00		\$0.00	0.0	\$0.00
	3	Environmental Specialist	HR	40	\$135.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00
	4	Staff Engineer	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
	5	CADD Technician	HR	40	\$110.00	\$4,400.00		\$0.00		\$0.00	0.0	\$0.00
E		PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE										
	1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
	2	Staff Engineer	HR	16	\$150.00	\$2,400.00		\$0.00		\$0.00	0.0	\$0.00
	3	Enviornmental Specialist	HR	30	\$135.00	\$4,050.00		\$0.00		\$0.00	0.0	\$0.00
	4	Staff Engineer	HR	0	\$150.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	5	CADD Technician	HR	150	\$110.00	\$16,500.00		\$0.00		\$0.00	0.0	\$0.00
F		PERMITTING										
	1	Project Manager / Senior Engineer	HR	68	\$190.00	\$12,920.00		\$0.00		\$0.00	0.0	\$0.00
	2	Engineer / Environmental Scientist	HR	120	\$105.00	\$12,600.00		\$0.00		\$0.00	0.0	\$0.00
	3	Sr. Scientist	HR	80	\$150.00	\$12,000.00						
	4	WVDEP AML RGP/USACE coord.	HR	24	\$150.00	\$3,600.00						
	5	WVWRAM Assessment	HR	12	\$135.00	\$1,620.00						
	6	CADD Technician	HR	42	\$110.00	\$4,620.00						
	7	Mailings (NPS Requirements)	Ea	12	\$135.00	\$1,620.00						
	8	Mileage	Mile	1000	\$0.67	\$670.00		\$0.00		\$0.00	0.0	\$0.00
	9	Per Diem	Day	10	\$159.00	\$1,590.00		\$0.00		\$0.00	0.0	\$0.00
G		PRE-BID CONFERENCE										
	1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
	2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
	3	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
H		PRE-CONSTRUCTION CONFERENCE										
	1	Project Manager / Senior Engineer	HR	4	\$190.00	\$760.00		\$0.00		\$0.00	0.0	\$0.00
	2	Construction Inspector	HR	4	\$125.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00
	3	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION												
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT												
Purchase Order No.: 0						Application No.: Fayette Station Slide and			Page 6 of 6 Pages			
Contract Name: 2023 AML Contract S3												
Commodity Line: 6												
Project Name: Professional Svcs - Fayette Station Slide												
SCHEDULE PER CONTRACT						WORK COMPLETED						
						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST	
TASK IV: CONSTRUCTION OVERSIGHT												
A	Construction Inspection											
1	Project Manager / Senior Engineer	HR	100	\$190.00	\$19,000.00		\$0.00		\$0.00	0.0	\$0.00	
2	Construction Inspector											
a	Construction Inspection	HR	1040	\$125.00	\$130,000.00		\$0.00		\$0.00	0.0	\$0.00	
b	Office Work / AMLNET	HR	100	\$125.00	\$12,500.00		\$0.00		\$0.00	0.0	\$0.00	
c	Mileage	Mile	12000	\$0.67	\$8,040.00		\$0.00		\$0.00	0.0	\$0.00	
d	Per Diem	Day	130	\$159.00	\$20,670.00		\$0.00		\$0.00	0.0	\$0.00	
TASK V: POST-CONSTRUCTION OVERSIGHT												
A	FIELD VISITS / INSPECTIONS											
1	Project Manager / Senior Engineer	HR	36	\$190.00	\$6,840.00		\$0.00		\$0.00	0.0	\$0.00	
2	Construction Inspector	HR	36	\$125.00	\$4,500.00		\$0.00		\$0.00	0.0	\$0.00	
3	Mileage	Mile	600	\$0.67	\$402.00		\$0.00		\$0.00	0.0	\$0.00	
					SUBTOTAL PAGE 6 COST	\$201,952.00	SUBTOTAL PAGE 6 PREVIOUS	\$0.00	SUBTOTAL PAGE 6 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 6 TO DATE	\$0.00
					PROJECT TOTAL COST	\$589,191.50	PROJECT TOTAL PREVIOUS	\$0.00	PROJECT TOTAL THIS APPLICATION	\$0.00	PROJECT TOTAL TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION													
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT													
Purchase Order No.: 0						Application No.: Fayette Station Slide and 1						Page X of X Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: N/A													
Project Name: N/A													
SCHEDULE PER CONTRACT						WORK COMPLETED							
						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST		
						GRAND TOTAL COST	\$589,191.50	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00

CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Keeney Creek Mines WV-4211

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Keeney Creek Mines AML project. Proposed reclamation activities at the Keeney Creek Mines AML site include the natural restoration of approximately 500 linear feet of stream channel currently choked off by eroding refuse, red dog, and coal fines; construction of drainage control channels and culverts to carry water safely off-site; excavation and proper sealing of the eleven (11) previously-identified mine portals; the reclamation and backfill of approximately 8,800 linear feet of highwall ranging from 30 to 80 feet in height; and stabilization of a slide area along the edge of county road WV-4211. Part of this project is located on a National Park Service property within the New River Gorge National Park, and completion of this project will eliminate AML hazards within a heavily-used recreational area within the park.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional



development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process.

Following initial NEPA consultation, and the acquisition of Special Use Permits from the National Park Service, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification, mine portal identification, and supplemental Phase I Habitat Assessment surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion.

At the request of WV SHPO, a Phase I Archaeological Survey will be conducted concurrently with the baseline assessment (following the receipt of an additional Special Use Permit from NPS). Two previously-recorded archaeological sites (46-FA-109 and 46-FW-548) are located within the proposed project area, with an additional eight sites in the surrounding region. These sites are believed to be pre-contact rock shelters that have the potential to be affected by the proposed highwall and drainage control construction. A Phase I Archaeological Survey will be conducted following the standards outlined in WV SHPO's *Guidelines for Phase I, II, and III Archaeological Investigations and Technical Reports* (2001) to determine what effects, if any, the Project would have on archaeological resources. Following the completion of fieldwork, a Phase I Archaeological Report will be prepared that summarizes the background research conducted, the methodologies employed, and the results of the fieldwork. Reporting will meet the guidelines for reports established by WV SHPO (2001), and will be submitted to WV SHPO following Client/Atlas reviews.

Atlas will combine the findings of the baseline assessment and Phase I Archaeological Survey into an Environmental Assessment (EA) document compliant with Office of Surface Mine Reclamation and Enforcement (OSMRE) guidelines; taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. The Phase I Bat Assessments will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The Phase I Archaeological Survey will be conducted by our subcontractor SWCA Environmental Consultants with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Water Resources / Water Quality
- Floodplain Management
- Air Quality
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Cultural Resources / Architectural, Archaeological Resources
- Biological Resources
- Noise



- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Permit and Regional General Permit for Abandoned Mine Lands will be required for the restoration activities.
- Permitting vehicle will be the Regional General Permit for AML Sites
- No additional USACE stream permitting will be required for the temporary crossing of Contrary Creek; however, a USACE permit will be required for the restoration efforts.
- Fieldwork includes initial wetland delineation and stream assessment, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, subsequent presence/absence surveys of the mine portals, as necessary, and a Phase I Archaeological Study.
- No supplemental Phase II Archaeological Surveys will be required.
- NEPA documentation will be an abbreviated Environmental Assessment.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.

Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a through search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.



Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

Atlas' costs include permitting / notification requirements with the National Park Service (NPS) and coordination with the owner(s) of the rail line that encroaches the project limits. A permit, through the US Army Corps of Engineers (USACE) will be required for the proposed stream restoration design.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:



- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

Geotechnical

Triad proposes to drill five (5) test borings to be used for the installation of piezometers (PZ-1 through PZ-5) at locations shown below for purpose of obtaining information on the water level in the mine. In addition, we propose to drill five (5) test borings (B-1 – B-5) to help locate possible sources of material for re-grading of the highwalls. The borings will include Standard Penetration Testing at approximately 2.5-foot centers of the soil overburden and NQ2 rock coring in bedrock. Upon completion of the borings PZ-1 through PZ-5, we plan to install piezometers into the mined-out coal seam and a geotechnical report will be prepared summarizing our findings. Our planned scope of services is more fully discussed below.

ATLAS



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing in borings and subsequent rock coring through the base of the mined-out coal seam in borings PZ-1 through PZ-5. Considering these five borings may encounter coal pillars, TRIAD proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:



Boring No	Description	Soil Drilling with standard sampling (L.F.)	Rock Drilling (L.F.)	Surface Elevation	Portal Elevation	Termination Criteria	Notes/Assumptions
PZ-1	Piezometer	15	135	1900	1675	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-1. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-2	Piezometer	15	135	1910	1840	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-2. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-3	Piezometer	15	135	1895	1835	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-3, 4, 5. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-4	Piezometer	15	135	1820	1780	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-6, 7, 8. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-5	Piezometer	15	135	1755	1700	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-9. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
B-1	Standard Boring	25	0			25 feet or auger refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-2	Standard Boring	25	0			25 feet or auger refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-3	Standard Boring	25	0			25 feet or auger refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-4	Standard Boring	25	0			25 feet or auger refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-5	Standard Boring	25	0			25 feet or auger refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
		200	675				

The piezometers will consist of a 1.5-inch minimum diameter PVC pipe with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective cover will be installed at the ground surface. The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.

Access to this site will be from Keeney Creek Road (County Route 85/2) and will include accessing the site by tramming the drill rig and support equipment along Keeney Creek approximately 1.1 miles to the farthest proposed boring location. No upgrades to this road are assumed. We anticipate that access will require the use of an excavator to make roads and clear brush, off this main haul road. After completion of drilling, we will perform restoration which includes re-grading any disturbed earth and a one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover. It should be noted that vegetative growth is not guaranteed. The estimated area of seeding and mulching is 2,500 feet by 12 feet. We have not included the cost for temporary erosion protection prior to cutting roads at the site. No creek crossings are assumed for this proposal. All disturbed areas will be seeded and mulched. All access and drill pads will be regraded to as close to original contours as possible.



Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Keeney Creek Mines AML Site consist of five-day work weeks for twenty six weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Keeney Creek Mines AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

ATTN: Clayton K. Roderick

VENDOR: ATC Group Services LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

APPLICATION NUMBER: Keeney Creek Mines (WV-4211)

PUR. ORD. NO.:

CONTRACT NAME: 2023 AML Contract N(x)

OASIS VENDOR CUSTOMER NUMBER: 189555

COMMODITY LINE	PROJECT NO.	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
7	EPAM24009	Professional Svcs - Keeney Creek Mines	
TOTAL AMOUNT DUE THIS INVOICE			\$0.00

DATES OF SERVICE: FROM TO

DATE OF APPLICATION FOR PYMT:

ORIGINAL CONTRACT SUM	\$491,411.00
NET CHANGE BY CHANGE ORDERS	\$0.00
TOTAL CONTRACT SUM TO DATE	\$491,411.00
TOTAL BILLED TO DATE	\$0.00
LESS PREVIOUS PAYMENT TO DATE	\$0.00
CURRENT PAYMENT DUE	\$0.00

INVOICE TYPE: REG. ☒ NO. 1

% COMPLETE: \$0.00 0.00%
\$491,411.00

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES ☐ NO ☒

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

SIGNATURES AND DATES:

REALTY REPRESENTATIVE

PLANNING REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

VENDOR SIGNATURE AND DATE

VENDOR PRINTED NAME

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Keeney Creek Mines (WV)			Page 2 of 6 Pages		
Contract Name: 2023 AML Contract N(x)											
Commodity Line: 7											
Project Name: Professional Svcs - Keeney Creek Mines						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK 1: NEPA & ESA											
A	Agency Coordinations (including Office Work, AMLNET, etc.)										
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	40	\$135.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
B	Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)										
1	Project Manager / Senior Engineer	HR	4	\$190.00	\$760.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	20	\$135.00	\$2,700.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	300	\$0.67	\$201.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	2	\$159.00	\$318.00		\$0.00		\$0.00	0.0	\$0.00
C	Studies, Surveys & Mitigation Plans (as applicable)										
1	Project Manager / Senior Engineer	HR	2	\$190.00	\$380.00		\$0.00		\$0.00	0.0	\$0.00
2	Bat Assessment	LS	1	\$800.00	\$800.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	0	\$135.00	\$0.00		\$0.00	0.0	\$0.00	0.0	\$0.00
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00	0.0	\$0.00	0.0	\$0.00
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00	0.0	\$0.00	0.0	\$0.00
D	CATEX / EA / FONSI / EIS										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	28	\$135.00	\$3,780.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	60	\$105.00	\$6,300.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
				SUBTOTAL PAGE 2 COST	\$25,959.00	SUBTOTAL PAGE 2 PREVIOUS	\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 2 TO DATE	\$0.00

AML-7A (Revised 7/5/2023)

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENTAML-7A (Revised 7/5/2023)

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Keeney Creek Mines (WV)				Page 4 of 6 Pages	
Contract Name: 2023 AML Contract N(x)											
Commodity Line: 7											
Project Name: Professional Svcs - Keeney Creek Mines						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
1	Project Manager	HR	26	\$190.00	\$4,940.00		\$0.00		\$0.00	0.0	\$0.00
2	Senior Engineer	HR	38	\$185.00	\$7,030.00		\$0.00		\$0.00	0.0	\$0.00
	Staff Engineer	HR	20	\$125.00	\$2,500.00						
3	Mileage	Mile	300	\$0.67	\$201.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$159.00	\$159.00		\$0.00		\$0.00	0.0	\$0.00
B	SURVEYING & MAPPING										
1	Project Manager	HR	16	\$175.00	\$2,800.00		\$0.00		\$0.00	0.0	\$0.00
2	Professional Surveyor / Chief Surveyor	HR	26	\$150.00	\$3,900.00		\$0.00		\$0.00	0.0	\$0.00
3	Survey Crew (3-Man)	HR	144	\$240.00	\$34,560.00		\$0.00		\$0.00	0.0	\$0.00
4	Senior Technician (CAD - Base Mapping)	HR	50	\$110.00	\$5,500.00		\$0.00		\$0.00	0.0	\$0.00
5	Topographic, Planimetric and Check Surveying	Acre	20	\$125.00	\$2,500.00		\$0.00		\$0.00	0.0	\$0.00
6	Mileage	Mile	2350	\$0.67	\$1,574.50		\$0.00		\$0.00	0.0	\$0.00
7	ATC Support Vehicle	Day	8	\$250.00	\$2,000.00		\$0.00		\$0.00	0.0	\$0.00
8	GNSS Equipment Rental	MO	1	\$500.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00
C	GEOTECHNICAL INVESTIGATION										
1	Project Manager	HR	14	\$150.00	\$2,100.00		\$0.00		\$0.00	0.0	\$0.00
2	Senior Engineer	HR	24	\$185.00	\$4,440.00		\$0.00		\$0.00	0.0	\$0.00
3	Geotechnical Engineer / Geologist	HR	200	\$125.00	\$25,000.00		\$0.00		\$0.00	0.0	\$0.00
4	Mobilization / Demobilization	LS	1	\$9,500.00	\$9,500.00		\$0.00		\$0.00	0.0	\$0.00
5	Soil Augering with Sampling	LF	200	\$30.00	\$6,000.00		\$0.00		\$0.00	0.0	\$0.00
6	Rock Coring	LF	675	\$42.00	\$28,350.00		\$0.00		\$0.00	0.0	\$0.00
7	Water Hauling	Day	10	\$600.00	\$6,000.00		\$0.00		\$0.00	0.0	\$0.00
8	Heavy Equipment	HR	80	\$195.00	\$15,600.00		\$0.00		\$0.00	0.0	\$0.00
9	Piezometer Installation	LF	250	\$40.00	\$10,000.00		\$0.00		\$0.00	0.0	\$0.00
10	Reclamation	LS	1	\$10,000.00	\$10,000.00		\$0.00		\$0.00	0.0	\$0.00
11	Geotechnical Investigation Report	LS	1	\$7,600.00	\$7,600.00		\$0.00		\$0.00	0.0	\$0.00
12	Mileage	Mile	1650	\$0.67	\$1,105.50						
13	Lockable Protective Cover	EA	5	\$250.00	\$1,250.00		\$0.00		\$0.00	0.0	\$0.00
				SUBTOTAL PAGE 4 COST	\$195,110.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Keeney Creek Mines (WV)		Page 5 of 6 Pages				
Contract Name: 2023 AML Contract N(x)												
Commodity Line: 7												
Project Name: Professional Svcs - Keeney Creek Mines						WORK COMPLETED						
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST	
TASK III: DESIGN (CONTINUED)												
D	ANALYSIS AND DESIGN											
1	Project Manager / Senior Engineer	HR	24	\$190.00	\$4,560.00		\$0.00		\$0.00	0.0	\$0.00	
2	Geotechnical Engineer	HR	8	\$150.00	\$1,200.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Specialist	HR	80	\$135.00	\$10,800.00		\$0.00		\$0.00	0.0	\$0.00	
4	Planning / Technical Specialist	HR	20	\$135.00	\$2,700.00		\$0.00		\$0.00	0.0	\$0.00	
5	CADD Technician	HR	30	\$110.00	\$3,300.00		\$0.00		\$0.00	0.0	\$0.00	
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE											
1	Project Manager / Senior Engineer	HR	60	\$190.00	\$11,400.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Environmental Scientist	HR	10	\$135.00	\$1,350.00		\$0.00		\$0.00	0.0	\$0.00	
3	CADD Technician	HR	130	\$110.00	\$14,300.00		\$0.00		\$0.00	0.0	\$0.00	
	Planning / Technical Specialist	HR	40	\$135.00	\$5,400.00							
4	Mileage	Mile	500	\$0.67	\$335.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	2	\$159.00	\$318.00		\$0.00		\$0.00	0.0	\$0.00	
F	PERMITTING											
1	Project Manager / Senior Engineer	HR	44	\$190.00	\$8,360.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Environmental Scientist	HR	120	\$135.00	\$16,200.00		\$0.00		\$0.00	0.0	\$0.00	
3	CADD Technician	HR	40	\$110.00	\$4,400.00							
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
G	PRE-BID CONFERENCE											
1	Project Manager / Senior Engineer	HR	4	\$175.00	\$700.00		\$0.00		\$0.00	0.0	\$0.00	
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
H	PRE-CONSTRUCTION CONFERENCE											
1	Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00	0.0	\$0.00	
2	Construction Inspector	HR	3	\$125.00	\$375.00		\$0.00		\$0.00	0.0	\$0.00	
3	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
					SUBTOTAL PAGE 5 COST	\$86,223.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0

Purchase Order No.: 0	Application No.: Keeney Creek Mines (WV)	Page 6 of 6 Pages
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Contract Name:	2023 AML Contract N(x)
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Commodity Line:	7
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Project Name:	Professional Svcs - Keeney Creek Mines
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Project Name: Professional Svcs - Keeney Creek Mines	WORK COMPLETED
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[illegible]

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Keeney Creek Mines (WV)			Page X of X Pages		
Contract Name: 2023 AML Contract N(x)											
Commodity Line: N/A											
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
						GRAND TOTAL COST	\$491,411.00	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00
										GRAND TOTAL TO DATE	\$0.00

CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only !!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Royal Loadout No. 5 *WV-4208*

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Royal Loadout No. 5 AML project. Proposed reclamation activities at the Royal Loadout No. 5 AML site include the gathering and channelization of three (3) previously-identified heavy mine discharges located alongside one of the base piers of the New River Gorge Bridge, excavation and proper sealing of the previously-identified mine portals, and stabilization of an approximately one-acre slump/slide-prone area with trees and rock moving downslope located below the discharges. The site is located on National Park Service property, and NPS is concerned saturated soils will eventually slide downslope, potentially damaging the active railroad grade below.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources to address ESA concerns, the WV Historic Preservation Office to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, and the acquisition of a Special Use



Permit from the National Park Service, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification, mine portal identification, and supplemental Phase I Habitat Assessment surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an abbreviated Environmental Assessment (EA) document, in compliance with OSMRE guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. The Phase I Bat Surveys will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Water Resources / Water Quality
- Floodplain Management
- Air Quality
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Biological Resources
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Permit and Regional General Permit for Abandoned Mine Lands will be required for the stream crossing.
- Fieldwork includes initial wetland delineation and stream assessment, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent presence/absence surveys of the mine portals, as necessary.
- NEPA documentation will be an abbreviated EA.
- No additional USACE stream permitting will be required.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.



Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

Atlas' costs include permitting / notification requirements with the National Park Service (NPS) and coordination with the owner(s) of the rail line that encroaches the project limits. It is the responsibility of the WVDEP to incur the railroad flagger fees and permitting fees, if applicable.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:



- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Bat Gates
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Triad's assumptions for this proposal are provided below:

- WVDOH MM109 permitting drilling in the road is required. Costs for obtaining this permit and for maintenance and protection of traffic during the field geotechnical exploration have been included.
- Triad assumes that we are not completing surveying or geotechnical evaluation of the potentially failing retaining wall at the toe of the slope that is potentially on CSX property at the direction of WVDEP.
- Triad assumes that monitoring of the landslide will continue for one month, including two full day mobilizations to the site each month and is presented as a lump sum fee in the costing spreadsheet. Should the WVDEP require monitoring beyond one month following the completion of the reclamation and construction activities, a change order request will be provided before any additional monitoring activities commence.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste



- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

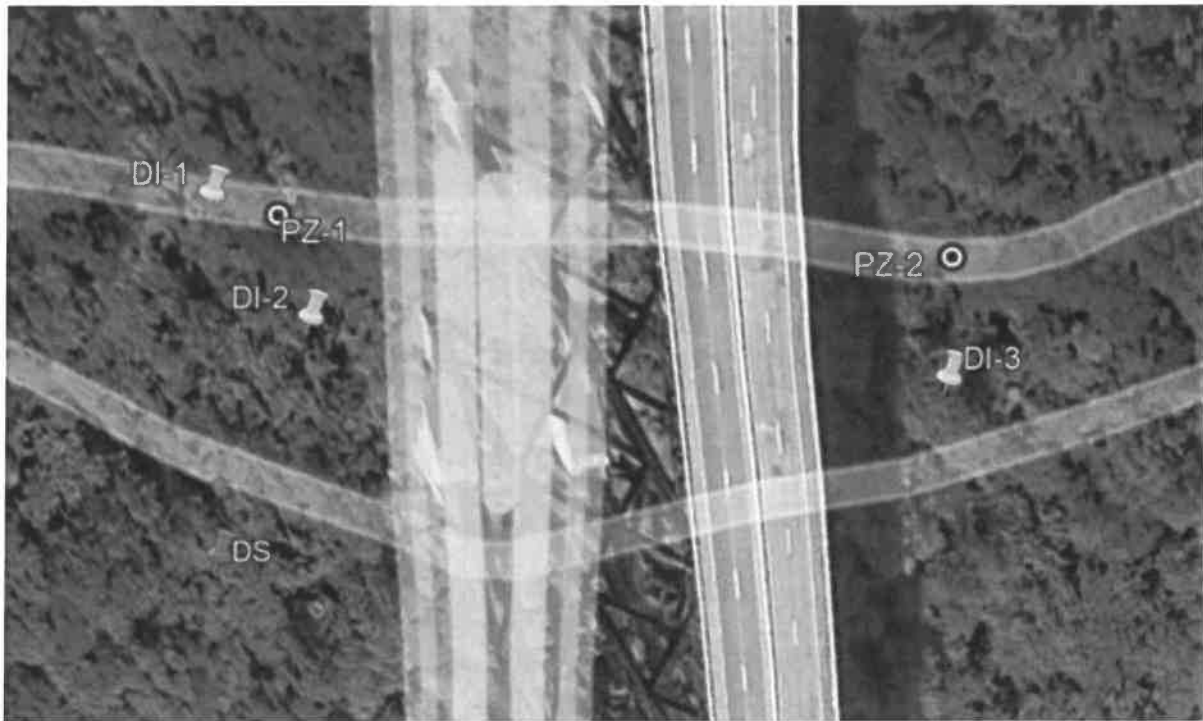
Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

Geotechnical

Triad proposes to drill two (2) test borings to be used for the installation of piezometers at locations shown below for purpose of obtaining information on the water level in the mine. The borings will include Standard Penetration Testing of the soil overburden and NQ2 rock coring in bedrock. Upon completion of the borings, Triad will install piezometers into the mined-out coal seam. Triad will prepare a geotechnical report summarizing their findings. Our planned scope of services is more fully discussed below.

ATLAS



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing and rock coring through the base of the mined-out coal seam. Considering boring may encounter coal pillars, Triad proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:

ATLAS

Boring No	Description	Soil Drilling with standard samplings (L.F.)	Rock Drilling (L.F.)	Piezometer Pipe	Surface Elevation	Coal Seam Elevation	Termination Criteria	Notes/ Assumptions
PZ-1	Piezometer	15	75	30	1301	1280-1285	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-1 and above DI-2. Assuming 5 feet of soil and 25 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt. Need protective cover for road- flush mount.
PZ-2	Piezometer	15	75	30	1307	1280-1285	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines above DI-3. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt. Need protective cover for road flush mount.
		30	150	60				

The piezometers will consist of a minimum 1.5-inch inside-diameter PVC pipe with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective cover will be installed at the ground surface. The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.

Access to this site will be from County Route 82 and will include obtaining a West Virginia Department of Highways MM109 highway encroachment permit and providing maintenance and protection of traffic. Triad has assumed the need for flaggers for the entire field exploration duration of this project. We anticipate that access will not require the use of an excavator to make roads and clear brush. No restoration other than cleaning of cuttings and the installation of protective covers is assumed for this project.

Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter.



Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Royal Loadout No. 5 site consist of five-day work weeks for eight weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Royal Loadout No. 5 AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: Royal Loadout No. 5 (WV-4208)

PUR. ORD. NO.: _____

CONTRACT NAME: 2023 AML Contract S3

COMMODITY LINE	PROJECT NO.:	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
8	EPAM24007	Professional Svcs - Royal Loadout No. 5	
		TOTAL AMOUNT DUE THIS INVOICE	\$0.00

INVOICE TYPE: REG. [**X**]
NO. 1

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES ☐ NO ☒

SIGNATURES AND DATES:

REALTY REPRESENTATIVE	PLANNING REPRESENTATIVE
<p>1. Name of the client: _____</p> <p>2. Address: _____</p> <p>3. City: _____ State: _____ Zip: _____</p> <p>4. Date of birth: _____</p> <p>5. Date of death: _____</p> <p>6. Date of marriage: _____</p> <p>7. Date of divorce: _____</p> <p>8. Date of remarriage: _____</p> <p>9. Date of separation: _____</p> <p>10. Date of remarriage: _____</p> <p>11. Date of remarriage: _____</p> <p>12. Date of remarriage: _____</p> <p>13. Date of remarriage: _____</p> <p>14. Date of remarriage: _____</p> <p>15. Date of remarriage: _____</p> <p>16. Date of remarriage: _____</p> <p>17. Date of remarriage: _____</p> <p>18. Date of remarriage: _____</p> <p>19. Date of remarriage: _____</p> <p>20. Date of remarriage: _____</p>	<p>1. Name of the client: _____</p> <p>2. Address: _____</p> <p>3. City: _____ State: _____ Zip: _____</p> <p>4. Date of birth: _____</p> <p>5. Date of death: _____</p> <p>6. Date of marriage: _____</p> <p>7. Date of divorce: _____</p> <p>8. Date of remarriage: _____</p> <p>9. Date of separation: _____</p> <p>10. Date of remarriage: _____</p> <p>11. Date of remarriage: _____</p> <p>12. Date of remarriage: _____</p> <p>13. Date of remarriage: _____</p> <p>14. Date of remarriage: _____</p> <p>15. Date of remarriage: _____</p> <p>16. Date of remarriage: _____</p> <p>17. Date of remarriage: _____</p> <p>18. Date of remarriage: _____</p> <p>19. Date of remarriage: _____</p> <p>20. Date of remarriage: _____</p>

REALTY REPRESENTATIVE	PLANNING REPRESENTATIVE
<p>1. Name of the client: _____</p> <p>2. Address: _____</p> <p>3. City: _____ State: _____ Zip: _____</p> <p>4. Date of birth: _____</p> <p>5. Date of death: _____</p> <p>6. Date of marriage: _____</p> <p>7. Date of divorce: _____</p> <p>8. Date of remarriage: _____</p> <p>9. Date of separation: _____</p> <p>10. Date of remarriage: _____</p> <p>11. Date of remarriage: _____</p> <p>12. Date of remarriage: _____</p> <p>13. Date of remarriage: _____</p> <p>14. Date of remarriage: _____</p> <p>15. Date of remarriage: _____</p> <p>16. Date of remarriage: _____</p> <p>17. Date of remarriage: _____</p> <p>18. Date of remarriage: _____</p> <p>19. Date of remarriage: _____</p> <p>20. Date of remarriage: _____</p>	<p>1. Name of the client: _____</p> <p>2. Address: _____</p> <p>3. City: _____ State: _____ Zip: _____</p> <p>4. Date of birth: _____</p> <p>5. Date of death: _____</p> <p>6. Date of marriage: _____</p> <p>7. Date of divorce: _____</p> <p>8. Date of remarriage: _____</p> <p>9. Date of separation: _____</p> <p>10. Date of remarriage: _____</p> <p>11. Date of remarriage: _____</p> <p>12. Date of remarriage: _____</p> <p>13. Date of remarriage: _____</p> <p>14. Date of remarriage: _____</p> <p>15. Date of remarriage: _____</p> <p>16. Date of remarriage: _____</p> <p>17. Date of remarriage: _____</p> <p>18. Date of remarriage: _____</p> <p>19. Date of remarriage: _____</p> <p>20. Date of remarriage: _____</p>

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

ATTN: Clayton K. Roderick

VENDOR: ATC Group Services, LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

OASIS VENDOR CUSTOMER NUMBER: 189555

DATE OF SERVICE: FROM _____ TO _____

DATE OF APPLICATION FOR PYMT: _____

ORIGINAL CONTRACT SUM	\$220,432.84
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NET CHANGE BY CHANGE ORDERS	\$0.00
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TOTAL CONTRACT SUM TO DATE	\$220,432.84
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TOTAL BILLED TO DATE	\$0.00
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LESS PREVIOUS PAYMENT TO DATE	\$0.00
-------------------------------	--------

CURRENT PAYMENT DUE	\$0.00
---------------------	--------

% COMPLETE:	$\frac{\$0.00}{\$220,432.84}$	0.00%
-------------	-------------------------------	-------

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

VENDOR SIGNATURE AND DATE

VENDOR PRINTED NAME

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Royal Loadout No. 5 (WV)						Page 2 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 8													
Project Name: Professional Svcs - Royal Loadout No. 5						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST		
TASK I: NEPA & ESA													
A	Agency Coordinations (including Office Work, AMLNET, etc.)												
1	Project Manager / Senior Engineer	HR	10	\$190.00	\$1,900.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Technical Scientist	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Planning / Technical Specialist	HR	24	\$135.00	\$3,240.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
B	Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)												
1	Project Manager / Senior Engineer	HR	2	\$190.00	\$380.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Technical Scientist	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Planning / Technical Specialist	HR	16	\$135.00	\$2,160.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mileage	Mile	2	\$0.67	\$1.34		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	2	\$159.00	\$318.00		\$0.00		\$0.00	0.0	\$0.00		
C	Studies, Surveys & Mitigation Plans (as applicable)												
1	Project Manager / Senior Engineer	HR	0	\$180.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
2	Bat Assessment	LS	1	\$2,750.00	\$2,750.00		\$0.00		\$0.00	0.0	\$0.00		
3	Planning / Technical Specialist	HR	40	\$135.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mileage	Mile	4	\$100.00	\$400.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	6	\$50.00	\$300.00		\$0.00		\$0.00	0.0	\$0.00		
C	CATEX / EA / FONSI / EIS												
1	Project Manager / Senior Engineer	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Technical Scientist	HR	24	\$135.00	\$3,240.00		\$0.00		\$0.00	0.0	\$0.00		
3	Planning / Technical Specialist	HR	60	\$105.00	\$6,300.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
SUBTOTAL PAGE 2 COST					\$26,389.34	SUBTOTAL PAGE 2 PREVIOUS	\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 2 TO DATE	\$0.00		

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Royal Loadout No. 5 (WV)						Page 3 of 6 Pages		
Contract Name: 2023 AML Contract S3														
Commodity Line: 8														
Project Name: Professional Svcs - Royal Loadout No. 5						WORK COMPLETED								
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE				
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST			
TASK II: REALTY														
A	Exploratory Rights of Entry (EROE)													
1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00			
2	Realty Agent		0	\$135.00	\$0.00									
a	Courthouse Work	HR	6	\$135.00	\$810.00		\$0.00		\$0.00	0.0	\$0.00			
b	Field Reconnaissance / Landowner Correspondence	HR	6	\$135.00	\$810.00		\$0.00		\$0.00	0.0	\$0.00			
c	Office Work / AMLNET	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00			
3	Mileage	Mile	350	\$0.67	\$234.50		\$0.00		\$0.00	0.0	\$0.00			
4	Per Diem	Day	1	\$59.00	\$59.00		\$0.00		\$0.00	0.0	\$0.00			
B	Construction Rights of Entry (CROE)													
1	Project Manager / Senior Engineer	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00			
2	Realty Agent													
a	Courthouse Work	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00			
b	Field Reconnaissance / Landowner Correspondence	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00			
c	Office Work / AMLNET	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00			
3	Mileage	Mile	350	\$0.67	\$234.50		\$0.00		\$0.00	0.0	\$0.00			
4	Per Diem	Day	1	\$59.00	\$59.00		\$0.00		\$0.00	0.0	\$0.00			
C	Pre-Bid Conference													
1	Realty Agent	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00			
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00			
D	Pre-Construction Conference													
1	Realty Agent	HR	4	\$135.00	\$540.00		\$0.00		\$0.00	0.0	\$0.00			
2	Mileage	Mile	150	\$0.67	\$100.50		\$0.00		\$0.00	0.0	\$0.00			
3	Copy Costs	Doc	0	\$5.00	\$0.00									
4	Recording Fees	Doc	0	\$20.00	\$0.00									
5	Postage	Doc	0	\$5.00	\$0.00									
SUBTOTAL PAGE 3 COST					\$8,367.50	SUBTOTAL PAGE 3 PREVIOUS		\$0.00	SUBTOTAL PAGE 3 THIS APPLICATION		\$0.00	SUBTOTAL PAGE 3 TO DATE		\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Royal Loadout No. 5 (W)				Page 4 of 6 Pages		
Contract Name: 2023 AML Contract S3						WORK COMPLETED						
Commodity Line: 8												
Project Name: Professional Svcs - Royal Loadout No. 5												
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST	
TASK III: DESIGN												
A		SITE RECONNAISSANCE AND INVESTIGATIONS										
	1	Project Manager	HR	18	\$190.00		\$0.00		\$0.00	0.0	\$0.00	
		Senior Engineer	HR	32	\$185.00		\$5,920.00					
	2	Staff Engineer	HR	20	\$125.00		\$2,500.00		\$0.00	0.0	\$0.00	
	3	Mileage	Mile	0	\$0.67		\$0.00		\$0.00	0.0	\$0.00	
	4	Per Diem	Day	0	\$150.00		\$0.00		\$0.00	0.0	\$0.00	
B		SURVEYING & MAPPING										
	1	Project Manager	HR	8	\$175.00		\$1,400.00		\$0.00	0	\$0.00	
	2	Professional Surveyor / Chief Surveyor	HR	32	\$150.00		\$4,800.00		\$0.00	0	\$0.00	
	3	Survey Crewn (3 man)	HR	48	\$240.00		\$11,520.00		\$0.00	0	\$0.00	
	4	Senior Technician(CAD - Base mapping & RWT)	HR	32	\$110.00		\$3,520.00		\$0.00	0	\$0.00	
	5	Topographic, Planimetric and Check Surveying	LS	0	\$125.00		\$0.00		\$0.00	0	\$0.00	
	6	Mileage	Mile	800	\$0.67		\$536.00		\$0.00	0	\$0.00	
	7	ATV Support Vehicle	Day	0	\$250.00		\$0.00		\$0.00	0	\$0.00	
	8	CSX Roadway Worker Training (RWT) 1-time event	EA	0	\$200.00		\$0.00		\$0.00	0	\$0.00	
	9	CSX Flagger	HR	0	\$300.00		\$0.00		\$0.00	0	\$0.00	
	10	GNSS Equipment Rental	MO	1	\$500.00		\$500.00		\$0.00	0	\$0.00	
	11	Deformation Montioring of Stabilized Landslide	MO	0	\$6,000.00		\$0.00		\$0.00	0	\$0.00	
C		GEOTECHNICAL INVESTIGATION										
	1	Project Manager	HR	28	\$150.00		\$4,200.00		\$0.00	0.0	\$0.00	
		Senior Engineer	HR	24	\$185.00		\$4,440.00					
	2	Staff Engineer/Geologist	HR	52	\$120.00		\$6,240.00		\$0.00	0.0	\$0.00	
	3	Mobilization / Demobilization	LS	1	\$5,500.00		\$5,500.00		\$0.00	0.0	\$0.00	
	4	Soil Augering with Sampling	LF	30	\$30.00		\$900.00		\$0.00	0.0	\$0.00	
	5	Rock Coring	LF	150	\$42.00		\$6,300.00		\$0.00	0.0	\$0.00	
	6	Water Hauling	Day	3	\$600.00		\$1,800.00		\$0.00	0.0	\$0.00	
	7	Heavy Equipment	HR	0	\$195.00		\$0.00		\$0.00	0.0	\$0.00	
	8	Piezometer Installation	LF	60	\$40.00		\$2,400.00		\$0.00	0.0	\$0.00	
	9	Reclamation	LS	0	\$5,500.00		\$0.00		\$0.00	0.0	\$0.00	
	10	Geotechnical Investigation Report	LS	1	\$4,000.00		\$4,000.00		\$0.00	0.0	\$0.00	
	11	Mileage	Mile	900	\$0.67		\$603.00					
	12	Flush Mount Protective Cover	EA	2	\$250.00		\$500.00					
	13	Flaggers for Maintenance and Protection of Traffic	Day	3	\$1,900.00		\$5,700.00		\$0.00	0.0	\$0.00	
					SUBTOTAL PAGE 4 COST	\$76,699.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00
AML-7A (Revised 7/5/2023)												

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Royal Loadout No. 5 (WV)		Page 5 of 6 Pages				
Contract Name: 2023 AML Contract S3												
Commodity Line: 8												
Project Name: Professional Svcs - Royal Loadout No. 5						WORK COMPLETED						
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST	
TASK III: DESIGN (CONTINUED)												
D	ANALYSIS AND DESIGN											
1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00	
2	Geotechnical Engineer	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Planning / Technical Specialist	HR	60	\$135.00	\$8,100.00		\$0.00		\$0.00	0.0	\$0.00	
4	Staff Engineer	HR	0	\$150.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	CADD Technician	HR	16	\$110.00	\$1,760.00		\$0.00		\$0.00	0.0	\$0.00	
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE											
1	Project Manager / Senior Engineer	HR	15	\$190.00	\$2,850.00		\$0.00		\$0.00	0.0	\$0.00	
2	Geotechnical Engineer	HR	0	\$155.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Planning / Technical Specialist	HR	10	\$135.00	\$1,350.00		\$0.00		\$0.00	0.0	\$0.00	
4	Staff Engineer	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	CADD Technician	HR	32	\$110.00	\$3,520.00		\$0.00		\$0.00	0.0	\$0.00	
F	PERMITTING											
1	Project Manager / Senior Engineer	HR	24	\$190.00	\$4,560.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Environmental Scientist	HR	90	\$150.00	\$13,500.00		\$0.00		\$0.00	0.0	\$0.00	
3	CADD Technician	HR	24	\$110.00	\$2,640.00		\$0.00		\$0.00	0.0	\$0.00	
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
G	PRE-BID CONFERENCE											
1	Project Manager / Senior Engineer	HR	3	\$190.00	\$570.00		\$0.00		\$0.00	0.0	\$0.00	
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
H	PRE-CONSTRUCTION CONFERENCE											
1	Project Manager / Senior Engineer	HR	3	\$190.00	\$570.00		\$0.00		\$0.00	0.0	\$0.00	
2	Construction Inspector	HR	3	\$125.00	\$375.00		\$0.00		\$0.00	0.0	\$0.00	
3	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
					SUBTOTAL PAGE 5 COST	\$42,075.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0	Application No.: Royal Loadout No. 5 (W)	Page 6 of 6 Pages
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Contract Name:	2023 AML Contract S3	Application No:	Royal Laidant No. 3 (W)	Page 6 of 6 Pages
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Purchase Order No.: 0	Application No.: Royal Loadout No. 5 (W)	Page 6 of 6 Pages
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Purchase Order No.: 0	Application No.: Royal Loadout No. 5 (W)	Page 6 of 6 Pages
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Commodity Line:	8
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Project Name:	Professional Svcs - Royal Lndout No. 5	WORK COMPLETED
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Project Name: Professional Svcs - Royal Loadout No. 5	WORK COMPLETED
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Royal Loadout No. 5 (WV)			Page X of X Pages		
Contract Name: 2023 AML Contract S3						THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS					
Commodity Line: N/A						EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED					
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST

AML-7 (Revised 7/5/2023)

CONTRACT NAME: . Contract S3

GRAND TOTAL COST	\$220,432.84	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Nuttallburg South Bench WV-4210

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Nuttallburg South Bench AML project. Proposed reclamation activities at the Nuttallburg South Bench AML Site include the reclamation of five (5) open portals and approximately thirty-three (33) collapsed / draining entries (based upon the OSM-51 and initial field reconnaissance). It has been noted that more entry ways may be located during the field reconnaissance and the reclamation design processes. The associated mine waters have created seep zones along the benches and, in some areas, washouts and eroded areas are prevalent along the hiking / walking trails.

The proposed Nuttallburg South Bench site is divided into two sections; West of Short Creek and East of Short Creek. Each section will have its designated access roads, separated by Short Creek. The eastern section features includes most of the AML features and, based upon flow data provided by the WVDEP and historical mine mapping, this area appears to have more waters saturating the ground than the area located west of Short Creek.

National Park Service (NPS) approved bat gates with wet seals (as applicable) are proposed for all of the abandoned entry ways. The associated waters will be captured and diverted, via constructed channels, to a natural swale, located below the bench to lessen the ground saturation and prevent any movement in the future. Landslide-prone areas have developed below these abandoned portals / entries causing instability and movement. These trails are heavily used by tourists and reclamation of of this site will remove the AML hazards from within the New River Gorge National Park, making the area safe to visitors and will prevent the acid mine drainage (AMD) from impacting the surrounding trail systems.



Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, and the acquisition of a Special Use Permit(s) from the National Park Service, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification and characterization, mine portal identification, and supplemental Phase I Potential Hibernaculum surveys (as required per WV USFWS). The OSM-51 Nuttallburg South Bench; WV-4210 spec sheet stated there may be more mine entries than the 30 previously identified by WVDEP personnel, so Atlas field staff will be cautious to identify each mine entry resource during the baseline assessment survey. Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an Environmental Assessment (EA) document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. Consultation and supplemental Clean Water Act Section 404 permitting with the U.S. Army Corps of Engineers' (USACE) Huntington District will not be required for this effort, as no impacts to federally-jurisdictional resources are proposed. Should the baseline assessment of the site identify potential impacts to federally-jurisdictional features, consultation with the USACE Huntington District and supplemental permitting will be conducted on an "as needed" basis. The Phase I bat assessments will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Water Resources / Water Quality
- Floodplain Management
- Air Quality
- Terrestrial and Aquatic Environment



- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Biological Resources
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for any stream crossings.
- NEPA documentation will be an Environmental Assessment.
- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.

Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.



Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

Atlas' costs include permitting / notification requirements with the National Park Service (NPS) and coordination with the USACE.

Atlas has made the following assumptions:

- A USACE Regional General Permit for Abandoned Mine Lands will be required for authorization of potential impacts to aquatic resources.
- Consultation with USACE Huntington District will be on an “as needed” basis, pending the results of the initial baseline assessment.
- Fieldwork includes initial wetland delineation and stream assessment, WV Wetland Rapid Assessment Method analyses, identification of all mine entries/portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula assessments of the mine portals, as necessary.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.



Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will

utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.



Geotechnical

Triad proposes to drill seven (7) test borings to be used for the installation of piezometers (PZ-1 – PZ-7) at locations illustrated below for the purpose of obtaining information on the water level in the mine. PZ-1 and PZ-2 are for mine 336030 and PZ-3 through PZ-7 are for the Ames Land/ Dupree No. 4 mines, which are in the Sewell Coal seam formation. The borings will include Standard Penetration Testing at approximately 2.5-foot centers of the soil overburden and NQ2 rock coring in bedrock. Upon completion of the borings PZ-1 through PZ-7, we plan to install piezometers into the mined-out coal seam. TRIAD will prepare a geotechnical report summarizing our findings. Our planned scope of services is more fully discussed below.



ATLAS



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing and rock coring through the base of the mined-out coal seam in borings PZ-1 through PZ-7. Considering these seven borings may encounter coal pillars, Triad proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:

ATLAS

Boring No	Description	Soil Drilling with standard sampling (L.F.)	Rock Drilling (L.F.)	Piezometer Pipe (L.F.)	Surface Elevation	Portal Elevation	Termination Criteria	Notes/Assumptions
PZ-1	Piezometer	15	105	40	1750	1713	Open Mine Void- Coal Pavement	Near DI-1. Assuming 5 feet of soil and 35 feet of rock. Assuming 3 attempts.
PZ-2	Piezometer	15	300	105	1780	1674	Open Mine Void- Coal Pavement	Near DI-2/DI-3. Assuming 5 feet of soil and 100 feet of rock. Assuming 3 attempts.
PZ-3	Piezometer	15	135	50	1690	1640	Open Mine Void- Coal Pavement	Near DI-8, 9. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts.
PZ-4	Piezometer	15	135	50	1685	1615	Open Mine Void- Coal Pavement	Near DI-19. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts.
PZ-5	Piezometer	15	135	50	1670	1620	Open Mine Void- Coal Pavement	Near DI-22. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts.
PZ-6	Piezometer	15	135	50	1674	1624	Open Mine Void- Coal Pavement	Near DI-28. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts.
PZ-7	Piezometer	15	270	100	1700	1605	Open Mine Void- Coal Pavement	Near DI-31. Assuming 5 feet of soil and 90 feet of rock. Assuming 3 attempts.
		105	1215	445				

The piezometers will consist of a 1.5-inch diameter PVC pipe (minimum) with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective cover will be installed at the ground surface. The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.

Access to this site will be from Keeneys Creek Road (CR 85/2) and County Route 85/5 which will include accessing along the mine bench and at the Nuttallburg Headhouse Trailhead. We anticipate that access will require the use of an excavator to make roads and clear brush. After completion of drilling, we will perform restoration which includes re-grading any disturbed earth and a one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover. It should be noted that vegetative growth is not guaranteed. The estimated area of seeding and mulching is 13,200 feet by 12 feet. All access and drill pads will be regraded to as close to original contours as possible.



In order to obtain access to the boring locations there will be two (2) unnamed streams that will need to be crossed. Triad proposes to cross the stream by using on site rock/boulders placed strategically to create a drive through crossing with minimal disturbances to the stream. The repositioned boulders will remain after the work. Any material placed in the stream will be removed after use.

Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Nuttallburg South Bench AML Site consist of five-day work weeks for forty (40) weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Nuttallburg South Bench; WV-4210 AML Site.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION													
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT													
Purchase Order No.: 0						Application No.: Nuttallburg South Bench Page 3 of 6 Pages							
Contract Name: 2023 AML Contract S3													
Commodity Line: 9													
Project Name: Professional Svcs - Nuttallburg South Bench						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION				UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	
TASK II: REALTY													
A		Exploratory Rights of Entry (EROE)											
	1	Project Manager / Senior Engineer				HR	16	\$190.00	\$3,040.00				
	2	Realty Agent							\$0.00	\$0.00	0.0	\$0.00	
	a	Courthouse Work				HR	12	\$135.00	\$1,620.00	\$0.00	\$0.00	0.0	\$0.00
	b	Field Reconnaissance / Landowner Correspondence				HR	12	\$135.00	\$1,620.00	\$0.00	\$0.00	0.0	\$0.00
	c	Office Work / AMLNET				HR	12	\$135.00	\$1,620.00	\$0.00	\$0.00	0.0	\$0.00
	3	Mileage				Mile	300	\$0.67	\$201.00	\$0.00	\$0.00	0.0	\$0.00
	4	Per Diem				Day	1	\$59.00	\$59.00	\$0.00	\$0.00	0.0	\$0.00
B		Construction Rights of Entry (CROE)											
	1	Project Manager / Senior Engineer				HR	8	\$135.00	\$1,080.00	\$0.00	\$0.00	0.0	\$0.00
	2	Realty Agent											
	a	Courthouse Work				HR	8	\$135.00	\$1,080.00	\$0.00	\$0.00	0.0	\$0.00
	b	Field Reconnaissance / Landowner Correspondence				HR	8	\$135.00	\$1,080.00	\$0.00	\$0.00	0.0	\$0.00
	c	Office Work / AMLNET				HR	8	\$135.00	\$1,080.00	\$0.00	\$0.00	0.0	\$0.00
	3	Mileage				Mile	300	\$0.67	\$201.00	\$0.00	\$0.00	0.0	\$0.00
	4	Per Diem				Day	1	\$59.00	\$59.00	\$0.00	\$0.00	0.0	\$0.00
C		Pre-Bid Conference											
	1	Realty Agent				HR	8	\$135.00	\$1,080.00	\$0.00	\$0.00	0.0	\$0.00
	2	Mileage				Mile	0	\$0.67	\$0.00	\$0.00	\$0.00	0.0	\$0.00
D		Pre-Construction Conference											
	1	Realty Agent				HR	8	\$135.00	\$1,080.00	\$0.00	\$0.00	0.0	\$0.00
	2	Mileage				Mile	0	\$0.67	\$0.00	\$0.00	\$0.00	0.0	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Nuttallburg South Bench (1)						Page 4 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 9													
Project Name: Professional Svcs - Nuttallburg South Bench						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST		
TASK III: DESIGN													
A	SITE RECONNAISSANCE AND INVESTIGATIONS												
1	Project Manager	HR	24	\$190.00	\$4,560.00		\$0.00		\$0.00	0.0	\$0.00		
2	Senior Engineer	HR	32	\$185.00	\$5,920.00		\$0.00		\$0.00	0.0	\$0.00		
3	Staff Engineer	HR	24	\$150.00	\$3,600.00								
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
B	SURVEYING & MAPPING												
1	Project Manager	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00		
2	Professional Surveyor / Chief Surveyor	HR	32	\$150.00	\$4,800.00		\$0.00		\$0.00	0.0	\$0.00		
3	Survey Crew (3-Man)	HR	108	\$240.00	\$25,920.00		\$0.00		\$0.00	0.0	\$0.00		
4	Senior Technician (CAS - Base Mapping)	HR	48	\$110.00	\$5,280.00		\$0.00		\$0.00	0.0	\$0.00		
5	Topographic, Planimetric and Check Surveying	HR	6	\$125.00	\$750.00		\$0.00		\$0.00	0.0	\$0.00		
6	Mileage	Acre	1620	\$0.67	\$1,085.40		\$0.00		\$0.00	0.0	\$0.00		
7	ATV Support Vehicle	Mile	0	\$250.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
8	GNSS Equipment Rental	Day	1	\$159.00	\$159.00		\$0.00		\$0.00	0.0	\$0.00		
C	GEOTECHNICAL INVESTIGATION												
1	Project Manager	HR	16	\$190.00	\$3,040.00		\$0.00		\$0.00	0.0	\$0.00		
2	Senior Engineer	HR	16	\$185.00	\$2,960.00		\$0.00		\$0.00	0.0	\$0.00		
3	Geotechnical Engineer/Geologist	HR	370	\$125.00	\$46,250.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mobilization / Demobilization	LS	1	\$14,250.00	\$14,250.00		\$0.00		\$0.00	0.0	\$0.00		
5	Soil Augering with Sampling	LF	102	\$30.00	\$3,060.00		\$0.00		\$0.00	0.0	\$0.00		
6	Rock Coring	LF	1215	\$42.00	\$51,030.00		\$0.00		\$0.00	0.0	\$0.00		
7	Water Hauling	Day	30	\$600.00	\$18,000.00		\$0.00		\$0.00	0.0	\$0.00		
8	Heavy Equipment	HR	280	\$195.00	\$54,600.00		\$0.00		\$0.00	0.0	\$0.00		
9	Piezometer Installation	LF	445	\$40.00	\$17,800.00		\$0.00		\$0.00	0.0	\$0.00		
10	Reclamation	LS	1	\$20,000.00	\$20,000.00		\$0.00		\$0.00	0.0	\$0.00		
11	Geotechnical Investigation Report	LS	1	\$7,100.00	\$7,100.00		\$0.00		\$0.00	0.0	\$0.00		
12	Mileage	Mile	2700	\$0.67	\$1,809.00								
13	Lockable Protective Cover	EA	7	\$250.00	\$1,750.00								
14	Bridge Budget for Temporary Stream Crossings	EA	2	\$12,000.00	\$24,000.00		\$0.00		\$0.00	0.0	\$0.00		
				SUBTOTAL PAGE 4 COST	\$320,003.40	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00		

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Nuttallburg South Bench (1)						Page 5 of 6 Pages	
Contract Name: 2023 AML Contract S3						WORK COMPLETED							
Commodity Line: 9													
Project Name: Professional Svcs - Nuttallburg South Bench													
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION			UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN (CONTINUED)													
D		ANALYSIS AND DESIGN											
	1	Project Manager / Senior Engineer			HR	30	\$190.00	\$5,700.00	\$0.00		\$0.00	0.0	\$0.00
	2	Geotechnical Engineer			HR	24	\$150.00	\$3,600.00	\$0.00		\$0.00	0.0	\$0.00
	3	Environmental Specialist			HR	64	\$135.00	\$8,640.00	\$0.00		\$0.00	0.0	\$0.00
		Wetland & Stream Delineation & Portal Assessments			HR	110	\$135.00	\$14,850.00				0.0	\$0.00
		WVWRAM Assessments			HR	16	\$110.00	\$1,760.00					
	4	Staff Engineer			HR	8	\$150.00	\$1,200.00	\$0.00		\$0.00	0.0	\$0.00
	5	CADD Technician			HR	32	\$110.00	\$3,520.00	\$0.00		\$0.00	0.0	\$0.00
E		PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE											
	1	Project Manager / Senior Engineer			HR	50	\$190.00	\$9,500.00	\$0.00		\$0.00	0.0	\$0.00
	2	Geotechnical Engineer			HR	8	\$150.00	\$1,200.00	\$0.00		\$0.00	0.0	\$0.00
	3	Environmental Specialist			HR	64	\$135.00	\$8,640.00	\$0.00		\$0.00	0.0	\$0.00
	4	Staff Engineer			HR	60	\$150.00	\$9,000.00	\$0.00		\$0.00	0.0	\$0.00
	5	CADD Technician			HR	40	\$110.00	\$4,400.00	\$0.00		\$0.00	0.0	\$0.00
F		PERMITTING											
	1	Project Manager / Senior Engineer			HR	100	\$175.00	\$17,500.00	\$0.00		\$0.00	0.0	\$0.00
	2	Engineer / Environmental Scientist			HR	48	\$135.00	\$6,480.00	\$0.00		\$0.00	0.0	\$0.00
	3	CADD Technician			HR	96	\$110.00	\$10,560.00	\$0.00		\$0.00	0.0	\$0.00
	4	Mileage			Mile	800	\$0.67	\$536.00	\$0.00		\$0.00	0.0	\$0.00
	5	Per Diem			Day	14	\$159.00	\$2,226.00	\$0.00		\$0.00	0.0	\$0.00
G		PRE-BID CONFERENCE											
	1	Project Manager / Senior Engineer			HR	12	\$175.00	\$2,100.00	\$0.00		\$0.00	0.0	\$0.00
	2	Mileage			Mile	300	\$0.67	\$201.00	\$0.00		\$0.00	0.0	\$0.00
	3	Per Diem			Day	1	\$59.00	\$59.00	\$0.00		\$0.00	0.0	\$0.00
H		PRE-CONSTRUCTION CONFERENCE											
	1	Project Manager / Senior Engineer			HR	8	\$190.00	\$1,520.00	\$0.00		\$0.00	0.0	\$0.00
	2	Construction Inspector			HR	8	\$125.00	\$1,000.00	\$0.00		\$0.00	0.0	\$0.00
	3	Mileage			Mile	300	\$0.67	\$201.00	\$0.00		\$0.00	0.0	\$0.00
						SUBTOTAL PAGE 5 COST	\$114,393.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00
AML-7A (Revised 7/5/2023)													

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0

Purchase Order No.: 0	Application No.: Nattalburg South Bench (Page 6 of 6 Pages
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Purchase Order No.: 0	Application No.: Nattalburg South Bench (Page 6 of 6 Pages
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Contract Name:	2023 AML Contract S3
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Commodity Line: 9

Project Name:	Professional Svcs - Nuttallburg South Bench
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WORK COMPLETED	
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[illegible]

AML-7A (Revised 7/5/2023)

AML-7A (Revised 7/5/2023) **Professional Svcs - Nuttallburg South Bench**

PROJECT TOTAL COST	\$775,505.40
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TOTAL COST	\$775,505.40
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PROJECT TOTAL PREVIOUS	\$0.00
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TOTAL PREVIOUS	\$0.00
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PROJECT TOTAL THIS APPLICATION	\$0.00
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TOTAL THIS APPLICATION	\$0.00
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PROJECT TOTAL TO DATE	\$0.00
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TOTAL TO DATE	\$0.00
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION													
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT													
Purchase Order No.: 0						Application No.: Nuttallburg South Bench (Page X of X Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: N/A													
Project Name: N/A						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST		

AML-7 (Revised 7/5/2023)

CONTRACT NAME: - Contract S3

GRAND TOTAL COST	\$775,505.40	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Floyd Creek Highwalls & Drainage WV-4265 & WV-1496

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Floyd Creek Highwalls and Drainage AML project. Proposed reclamation activities at the Floyd Creek Highwalls and Drainage AML site include the reclamation and backfill of approximately 2,900 linear feet of nine (9) exposed and near-vertical highwalls to establish estimated original contour, the construction of drainage control channels and underdrains with gathering and channelization of heavy mine discharges at five (5) previously-identified impoundments and at least fourteen (14) mine portals/auger holes located along the highwalls, excavation and proper sealing of the fourteen (14) previously-identified mine portals, and the filling and stabilization of up to six (6) slump/subsidence areas. Project resources are located along the eastern side of Babcock State Park, with evidence that the project area is visited frequently by local hunters and other visitors. The highwalls pose a threat to any visitor to the area as they are vertical and unstable. The collapsed draining portals are impounding due to poor drainage along the highwall, and the park superintendent is concerned that if these portals were to blow out, they could easily damage park property as well as a private residence located below the project area.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.



Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, and the acquisition of a Special Use Permit from WV DNR (as applicable), Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification, mine portal identification, and supplemental Phase I Habitat Assessment surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an Environmental Assessment (EA) document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. Consultation and supplemental Clean Water Act Section 404 permitting with the U.S. Army Corps of Engineers' (USACE) Huntington District will not be needed for this effort, as no impacts to federally-jurisdictional waters are proposed. Should the baseline assessment of the site identify potential impacts to federally-jurisdictional waters, consultation with the USACE Huntington District and supplemental permitting will be conducted on an "as needed" basis. The Phase I bat assessments will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Water Resources / Water Quality
- Floodplain Management
- Air Quality
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Biological Resources
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security



Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for each individual stream crossing.
- A USACE Regional General Permit for Abandoned Mine Lands will be required for proposed impacts to aquatic resources.
- A Special Use permit or other specific work permit will be needed from WV DNR prior to conducting work in Babcock State Park will be decided (pending verification from WV DNR).
- Fieldwork includes initial wetland delineation and stream assessment, WV Wetland Rapid Assessment Method analyses, initial identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula surveys of the mine portals, as necessary.
- NEPA documentation will be an abbreviated EA.
- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Stream grouting will be limited to areas where other stabilization methodologies are not practicable.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.

Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a through search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.



Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

Currently, no impacts are proposed to federally-jurisdictional waters, wetland, or other surface waters. Should baseline assessments of the site identify proposed impacts to federally-jurisdictional waters, Atlas will consult with the USACE Huntington District's regulatory division as needed, with supplemental permitting also conducted as needed.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental.

Triad's assumptions for this proposal are provided below:

- Triad will install semi-permanent survey control points that will be used during the construction phase of the project.
- Triad assumes that there will be no boundary retracements required for this project.
- Triad will utilize shapefiles for the property boundaries and located property corners that are recoverable within the survey limits.



Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Clogged Stream Lands
- Dangerous Highwalls
- Dangerous Impoundments
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial / Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

Geotechnical

Triad proposes to drill three (3) test borings to be used for the installation of piezometers (PZ-1 – PZ-3) at locations illustrated below for the purpose of obtaining information on the water level in the mine. The borings will include Standard Penetration Testing at approximately 2.5-foot centers of the soil overburden and NQ2 rock coring in bedrock. Upon completion of the borings PZ-1 through PZ-3, we plan to install piezometers into the mined-out coal seam. TRIAD will prepare a geotechnical report summarizing our findings. Our planned scope of services is more fully discussed below.



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing and rock coring through the base of the mined-out coal seam. Considering boring may encounter coal pillars, Triad proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:



Boring No	Description	Soil Drilling with standard sampling (L.F.)	Rock Drilling (L.F.)	Piezometer Pipe (L.F.)	Surface Elevation	Portal Elevation/ Coal Seam Elevation	Termination Criteria	Notes/Assumptions
PZ-1	Piezometer	15	135	50	2470	2420	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-1, DI-2. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-2	Piezometer	15	135	50	2488	2438	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-3,4. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-3	Piezometer	15	135	50	2475	2425	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-5,6,7. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
		45	405	150				

The piezometers will consist of a 1.5-inch diameter PVC pipe with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective cover will be installed at the ground surface. The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.

Access to this site will be from Babcock State Park Forest Road 802 that is a paved internal park road. We anticipate that access will require the use of an excavator to make roads and clear brush off the park road. After completion of drilling, we will perform restoration which includes re-grading any disturbed earth and a one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover. It should be noted that vegetative growth is not guaranteed. The estimated area of seeding and mulching is 4,000 feet by 12 feet. We have not included the cost for temporary erosion protection prior to cutting roads at the site. No creek crossings are assumed for this proposal.

Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter. Therefore, it is your responsibility to disclose the presence and provide the accurate location of all underground utilities not marked by the public utility location service.



Triad will not be responsible for any damage that may result from striking underground utilities during the course of the subsurface exploration.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Floyd Creek Highwall and Drainage site consist of five-day work weeks for twenty six weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Floyd Creek Highwalls and Drainage; WV-4265 & WV-1496 AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: Floyd Creek Highwalls & Drainage (WV-4265 & WV-1496)

PUR. ORD. NO.: _____

CONTRACT NAME: 2023 AML Contract N(x)

COMMODITY LINE	PROJECT NO.	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
10	EPAM24004	Professional Svcs - Floyd Creek HW and Drainage	
TOTAL AMOUNT DUE THIS INVOICE			\$0.00

INVOICE TYPE: REG. ☒ NO. 1

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES ☐ NO ☒

SIGNATURES AND DATES:

REALTY REPRESENTATIVE

PLANNING REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

ATTN: Clayton K. Roderick

VENDOR: ATC Group Services LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

OASIS VENDOR CUSTOMER NUMBER: 189555

DATES OF SERVICE: FROM _____ TO _____

DATE OF APPLICATION FOR PYMT: _____

ORIGINAL CONTRACT SUM	\$419,383.50
NET CHANGE BY CHANGE ORDERS	\$0.00
TOTAL CONTRACT SUM TO DATE	\$419,383.50
TOTAL BILLED TO DATE	\$0.00
LESS PREVIOUS PAYMENT TO DATE	\$0.00
CURRENT PAYMENT DUE	\$0.00

% COMPLETE: \$0.00 0.00%
\$419,383.50

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

VENDOR SIGNATURE AND DATE

VENDOR PRINTED NAME

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Floyd Creek Highwalls & Page 2 of 6 Pages					
Contract Name: 2023 AML Contract N(x)											
Commodity Line: 10											
Project Name: Professional Svcs - Floyd Creek HW and Drainage						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK I: NEPA & ESA											
A	Agency Coordinations (including Office Work, AMLNET, etc.)										
1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	24	\$135.00	\$3,240.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
B	Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)										
1	Project Manager / Senior Engineer	HR	2	\$190.00	\$380.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	20	\$135.00	\$2,700.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
C	Studies, Surveys & Mitigation Plans (as applicable)										
1	Project Manager / Senior Engineer	HR	2	\$190.00	\$380.00		\$0.00		\$0.00	0.0	\$0.00
2	Bat Assessment	LS	1	\$700.00	\$800.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	50	\$135.00	\$6,750.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	2	\$100.00	\$200.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	2	\$159.00	\$318.00		\$0.00		\$0.00	0.0	\$0.00
C	CATEX / EA / FONSI / EIS										
1	Project Manager / Senior Engineer	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00
2	Engineer / Technical Scientist	HR	16	\$135.00	\$2,160.00		\$0.00		\$0.00	0.0	\$0.00
3	Planning / Technical Specialist	HR	50	\$105.00	\$5,250.00		\$0.00		\$0.00	0.0	\$0.00
4	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
SUBTOTAL PAGE 2 COST					\$25,978.00	SUBTOTAL PAGE 2 PREVIOUS		\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION		\$0.00
SUBTOTAL PAGE 2 TO DATE					\$0.00						

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Floyd Creek Highwalls &						Page 4 of 6 Pages	
Contract Name: 2023 AML Contract N(x)						WORK COMPLETED							
Commodity Line: 10													
Project Name: Professional Svs - Floyd Creek HW and Drainage													
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST		
TASK III: DESIGN													
A		SITE RECONNAISSANCE AND INVESTIGATIONS											
	1	Project Manager / Senior Engineer		HR	40	\$175.00	\$7,000.00		\$0.00		\$0.00		
	2	Staff Engineer		HR	20	\$185.00	\$3,700.00		\$0.00		\$0.00		
	3	Staff Engineer		HR	20	\$125.00	\$2,500.00		\$0.00		\$0.00		
	4	Per Diem		Day	0	\$59.00	\$0.00		\$0.00		\$0.00		
B		SURVEYING & MAPPING											
	1	Project Manager / Senior Engineer		HR	12	\$150.00	\$1,800.00		\$0.00		\$0.00		
	2	Professional Surveyor / Chief Surveyor		HR	24	\$150.00	\$3,600.00		\$0.00		\$0.00		
	3	Survey Crew (3 Man)		HR	120	\$240.00	\$28,800.00		\$0.00		\$0.00		
	4	Senior Technician (CAD - Base Mapping)		HR	40	\$110.00	\$4,400.00		\$0.00		\$0.00		
	5	Topographic, Planimetric and Check Surveying		Acre	16	\$125.00	\$2,000.00		\$0.00		\$0.00		
	6	Mileage		Mile	1750	\$0.67	\$1,172.50		\$0.00		\$0.00		
	7	ATV Support Vehicle		Day	0	\$250.00	\$0.00		\$0.00		\$0.00		
	8	GNSS Equipment Rental		Day	1	\$500.00	\$500.00		\$0.00		\$0.00		
C		GEOTECHNICAL INVESTIGATION											
	1	Project Manager		HR	16	\$150.00	\$2,400.00		\$0.00		\$0.00		
	2	Senior Engineer		HR	24	\$185.00	\$4,440.00						
	3	Geotechnical Engineer/Geologist		HR	120	\$125.00	\$15,000.00		\$0.00		\$0.00		
	4	Mobilization / Demobilization		LS	1	\$8,610.00	\$8,610.00		\$0.00		\$0.00		
	5	Soil Augering w/ Sampling		LF	45	\$30.00	\$1,350.00		\$0.00		\$0.00		
	6	Rock Coring		LF	405	\$42.00	\$17,010.00		\$0.00		\$0.00		
	7	Water Handling		Days	5	\$600.00	\$3,000.00		\$0.00		\$0.00		
	8	Heavy Equipment		HR	16	\$195.00	\$3,120.00		\$0.00		\$0.00		
	9	Piezometer Installation		LF	150	\$45.00	\$6,750.00		\$0.00		\$0.00		
	10	Reclamation		LS	1	\$5,500.00	\$5,500.00		\$0.00		\$0.00		
	11	Geotechnical Investigation Report		LS	1	\$6,055.00	\$6,055.00		\$0.00		\$0.00		
	12	Mileage		Mile	600	\$0.67	\$402.00		\$0.00		\$0.00		
	13	Stand Pipe Protective Care		Each	3	\$250.00	\$750.00		\$0.00		\$0.00		
					SUBTOTAL PAGE 4 COST	\$129,859.50	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00	
AML-7A (Revised 7/5/2023)													

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Floyd Creek Highwalls &		Page 5 of 6 Pages				
Contract Name: 2023 AML Contract N(x)												
Commodity Line: 10												
Project Name: Professional Svcs - Floyd Creek HW and Drainage												
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE		
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST	
TASK III: DESIGN (CONTINUED)												
D	ANALYSIS AND DESIGN											
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00	
2	Geotechnical Engineer	HR	0	\$155.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Specialist	HR	52	\$135.00	\$7,020.00		\$0.00		\$0.00	0.0	\$0.00	
4	Staff Engineer	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	CADD Technician	HR	24	\$110.00	\$2,640.00		\$0.00		\$0.00	0.0	\$0.00	
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE											
1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00	
2	Geotechnical Engineer	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0	\$0.00	
3	Environmental Specialist	HR	0	\$135.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
4	Staff Engineer	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	CADD Technician	HR	180	\$110.00	\$19,800.00		\$0.00		\$0.00	0.0	\$0.00	
F	PERMITTING											
1	Project Manager / Senior Engineer	HR	85	\$190.00	\$16,150.00		\$0.00		\$0.00	0.0	\$0.00	
2	Engineer / Environmental Scientist	HR	40	\$135.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00	
3	CADD Technician	HR	40	\$110.00	\$4,400.00		\$0.00		\$0.00	0.0	\$0.00	
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
G	PRE-BID CONFERENCE											
1	Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00	0.0	\$0.00	
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
3	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
H	PRE-CONSTRUCTION CONFERENCE											
1	Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00	0.0	\$0.00	
2	Construction Inspector	HR	3	\$125.00	\$375.00		\$0.00		\$0.00	0.0	\$0.00	
3	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
					SUBTOTAL PAGE 5 COST	\$63,995.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 6 of 6 Pages

Project Name:	Professional Svcs - Floyd Creek HW and Drainage
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WORK COMPLETED

PROJECT TOTAL COST	\$419,383.50	PROJECT TOTAL PREVIOUS	\$0.00	PROJECT TOTAL THIS APPLICATION	\$0.00	PROJECT TOTAL TO DATE	\$0.00
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Professional Svcs - Floyd Creek HW and Drainage

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Floyd Creek Highwalls & Page X of X Pages					
Contract Name: 2023 AML Contract N(x)											
Commodity Line: N/A											
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
CONTRACT NAME: Contract N(x)						GRAND TOTAL COST	\$419,383.50	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00
										GRAND TOTAL TO DATE	\$0.00

CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

County Route 82 Portals *WV-5770*

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed County Route 82 Portals AML project. Proposed reclamation activities at the County Route 82 Portals AML site include the excavation and re-grading of a coal refuse area with an associated abandoned highwall, the excavation and proper sealing of two (2) abandoned deep mine entries, and the abandonment/demolition of miscellaneous support structures including foundations and other structures.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources to address ESA concerns, the WV Historic Preservation Office to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream



identification, mine portal identification, and supplemental Phase I Habitat Assessment surveys (as required per WV USFWS).

Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an abbreviated Environmental Assessment (EA) document, in compliance with OSMRE guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. The Phase I Bat Surveys will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Water Resources / Water Quality
- Floodplain Management
- Air Quality
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Biological Resources
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field Staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Permit will be required for the stream crossing.
- The stream crossing will be temporary in nature, and will not require a Regional General Permit for AML Sites.
- No temporary or permanent stream impacts below the ordinary high water mark will be necessary.
- No additional USACE stream permitting will be required.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Fieldwork includes initial wetland delineation and stream assessment, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent presence/absence surveys of the mine portals, as necessary.
- NEPA documentation will be the abbreviated CCE form.



Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade



- Channel Improvements
- Portal Wet Seals
- Bat Gates
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets
- Plans and Specifications

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Triad's assumptions for this proposal are provided below:

- Surveying does not include stream restoration survey.
- Road bonding is not required and not included in this proposal.
- Triad is not participating in a pre-bid or pre-construction conference.
- Triad is not providing Construction Observations for this project

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Approximately 0.5 Acre Exposed Refuse Pile
- Approximately 6 acres of planimetric, topographic and check surveying
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits. Triad is proposing 12-hour workdays in order to reduce costs by lessening travel time and associated per diem. The proposed scoping and costing does not include any stream restoration survey



Quality Level / Accuracy Standard

Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

Geotechnical

Triad proposes to drill two (2) test borings to be used for the installation of piezometers at locations shown below for purpose of obtaining information on the water level in the mine. In addition to the piezometers, we propose to drill four (4) borings to investigate the dangerous pile (DPE) and to help locate possible sources of material for regrading the highwall. The borings will include Standard Penetration Testing at approximately 2.5 foot centers of the soil overburden and NQ2 rock coring in bedrock. Upon completion of borings PZ-1 and PZ-2 we will install piezometers into the mined-out coal seam. TRIAD will prepare a geotechnical report summarizing our findings. Our planned scope of services is more fully discussed below.

ATLAS



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing in borings B-1 through B-4 and rock coring through the base of the mined-out coal seam in PZ-1 and PZ-2. Considering these two borings may encounter coal pillars, Triad proposes to drill up to two offset holes at each location to allow the inclinometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:

ATLAS

Boring No	Description	Soil Drilling with standard sampling (L.F.)	Rock Drilling (L.F.)	Piezometer Pipe (L.F.)	Surface Elevation	Portal Elevation /Coal Seam Elevation	Termination Criteria	Notes/ Assumptions
PZ-1	Piezometer above DI-1	15	135	50	2250	2200	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-1. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-2	Piezometer above DI-2	15	135	50	2250	2200	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-2. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
B-1	DPE Boring	15	-		2192	-	15 feet or auger refusal	Drill to Refusal or elevation of bottom of DPE
B-2	DPE Boring	15	-		2193	-	15 feet or auger refusal	Drill to Refusal or elevation of bottom of DPE
B-3	Potential Borrow Source	15	-		2220	-	15 feet or auger refusal	Material Boring
B-4	Potential Borrow Source	15	-		2221	-	15 feet or auger refusal	Material Boring
Totals	-	90	270	100	-	-	-	-

The piezometers will consist of a minimum 1.5-inch inside-diameter PVC pipe with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and remainder of the hole will be grouted. A protective lockable cover will be installed at the ground surface.

The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.



Access to this site will be from Landing Edmond Road (County Route 82) and will include accessing traversing in an existing driveway along Keeney Creek. We anticipate that access will require the use of an excavator to make roads and clear brush. After completion of drilling, Triad will perform restoration which includes replacing any earth moved with an excavator and mulching and seeding areas where the ground has been disturbed. The estimated area of seeding and mulching is 600 feet by 12 feet. The costs do not include E&S protection prior to cutting the roads at the site.

In order to obtain access to the boring locations, the stream will need to be crossed. Depending on the width of the stream and the volume of water during the time of the drilling operations, either an air bridge or a causeway will be used in order to cross the stream. Any material placed in the stream will be removed after use. Triad has included a contingent 'place holder' of \$10,000 in order to budget the crossing for the exploratory drilling operations. The estimate may be revised after the final plan has been determined.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the County Route 82 Portals consist of five-day work weeks for eight weeks of construction oversight. Should the reclamation and construction activities continue beyond eight weeks, a change order request will be submitted to the WVDEP. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the County Route 82 Portals AML Site.

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 2 of 6 Pages

WORK COMPLETEDAML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION														
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT														
Purchase Order No.: 0						Application No.: County Route 82 Portals (
Contract Name: 2023 AML Contract S3						Page 3 of 6 Pages								
Commodity Line: 11														
Project Name: Professional Svcs - County Rt. 82 Portals						WORK COMPLETED								
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE				
TASK	DESCRIPTION				UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST		
TASK II: REALTY														
A		Exploratory Rights of Entry (EROE)												
	1	Project Manager / Senior Engineer				HR	8	\$190.00	\$1,520.00					
	2	Realty Agent						\$0.00		\$0.00	0.0	\$0.00		
	a	Courthouse Work				HR	6	\$135.00	\$810.00					
	b	Field Reconnaissance / Landowner Correspondence				HR	6	\$135.00	\$810.00					
	c	Office Work / AMLNET				HR	4	\$135.00	\$540.00					
	3	Mileage				Mile	300	\$0.67	\$201.00					
	4	Per Diem				Day	1	\$59.00	\$59.00					
										\$0.00	\$0.00	\$0.00		
B		Construction Rights of Entry (CROE)												
	1	Project Manager / Senior Engineer				HR	4	\$135.00	\$540.00					
	2	Realty Agent							\$0.00		\$0.00	0.0	\$0.00	
	a	Courthouse Work				HR	4	\$135.00	\$540.00					
	b	Field Reconnaissance / Landowner Correspondence				HR	4	\$135.00	\$540.00					
	c	Office Work / AMLNET				HR	4	\$135.00	\$540.00					
	3	Mileage				Mile	300	\$0.67	\$201.00					
	4	Per Diem				Day	1	\$59.00	\$59.00					
										\$0.00	\$0.00	\$0.00		
C		Pre-Bid Conference												
	1	Realty Agent				HR	4	\$135.00	\$540.00					
	2	Mileage				Mile	0		\$0.00		\$0.00	0.0	\$0.00	
										\$0.00	\$0.00	\$0.00		
D		Pre-Construction Conference												
	1	Realty Agent				HR	4	\$135.00	\$540.00					
	2	Mileage				Mile	150	\$0.67	\$100.50					
	3	Copy Costs				Doc	0	\$5.00	\$0.00					
	4	Recording Fees				Doc	0	\$20.00	\$0.00					
	5	Postage				Doc	0	\$5.00	\$0.00					
							SUBTOTAL PAGE 3 COST	\$7,540.50	SUBTOTAL PAGE 3 PREVIOUS	\$0.00	SUBTOTAL PAGE 3 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 3 TO DATE	\$0.00
AML-7A (Revised 7/5/2023)														

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: County Route 82 Portals (Page 4 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 11													
Project Name: Professional Svcs - County Rt. 82 Portals						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST		
TASK III: DESIGN													
A	SITE RECONNAISSANCE AND INVESTIGATIONS												
1	Project Manager	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00		
2	Senior Engineer	HR	26	\$185.00	\$4,810.00		\$0.00		\$0.00	0.0	\$0.00		
	Staff Engineer	HR	20	\$135.00	\$2,700.00								
3	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
4	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
B	SURVEYING & MAPPING												
1	Project Manager / Senior Engineer	HR	16	\$190.00	\$3,040.00		\$0.00		\$0.00	0.0	\$0.00		
2	Professional Surveyor / Chief Surveyor	HR	32	\$150.00	\$4,800.00		\$0.00		\$0.00	0.0	\$0.00		
3	Survey Crew (3-Man)	HR	48	\$240.00	\$11,520.00		\$0.00		\$0.00	0.0	\$0.00		
4	Senior Technician (CAD + Base Mapping)	HR	32	\$110.00	\$3,520.00		\$0.00		\$0.00	0.0	\$0.00		
5	Topographic, Planimetric and Check Surveying	HR	0	\$125.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
7	Mileage	Mile	800	\$0.67	\$536.00		\$0.00		\$0.00	0.0	\$0.00		
8	GNSS Equipment Rental	MO	1	\$500.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00		
C	GEOTECHNICAL INVESTIGATION												
1	Project Manager	HR	8	\$190.00	\$1,520.00		\$0.00		\$0.00	0.0	\$0.00		
2	Senior Engineer	HR	24	\$185.00	\$4,440.00								
3	Geotechnical Engineer/Geologist	HR	100	\$125.00	\$12,500.00								
4	Mobilization / Demobilization	LS	1	\$6,887.00	\$6,887.00								
5	Soil Augering with Sampling	LF	90	\$30.00	\$2,700.00								
6	Rock Coring	LF	270	\$42.00	\$11,340.00								
7	Water Hauling	Day	5	\$600.00	\$3,000.00								
8	Heavy Equipment	HR	20	\$195.00	\$3,900.00		\$0.00		\$0.00	0.0	\$0.00		
9	Piezometer Installation	LF	100	\$40.00	\$4,000.00		\$0.00		\$0.00	0.0	\$0.00		
10	Reclamation	LS	1	\$5,500.00	\$5,500.00		\$0.00		\$0.00	0.0	\$0.00		
11	Geotechnical Investigation Report	LS	1	\$4,000.00	\$4,000.00		\$0.00		\$0.00	0.0	\$0.00		
12	Mileage	Mile	600	\$0.67	\$402.00		\$0.00		\$0.00	0.0	\$0.00		
13	Lockable Protective Cover	EA	2	\$250.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00		
14	Flaggers for Maintenance & Protection of Traffic	LS	0	\$1,900.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
15	Bridge Budget for Entrance (Contingent)	EA	1	\$10,000.00	\$10,000.00		\$0.00		\$0.00	0.0	\$0.00		
					SUBTOTAL PAGE 4 COST	\$105,915.00	SUBTOTAL PAGE 4 PREVIOUS	\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 4 TO DATE	\$0.00	

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: County Route 82 Portals (Page 6 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 11													
Project Name: Professional Svcs - County Rt. 82 Portals						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST		
TASK IV: CONSTRUCTION OVERSIGHT													
A	Construction Inspection												
1	Project Manager / Senior Engineer	HR	30	\$190.00	\$5,700.00		\$0.00		\$0.00	0.0	\$0.00		
2	Construction Inspector												
a	Construction Inspection	HR	320	\$125.00	\$40,000.00		\$0.00		\$0.00	0.0	\$0.00		
b	Office Work / AMLNET	HR	30	\$125.00	\$3,750.00		\$0.00		\$0.00	0.0	\$0.00		
c	Mileage	Mile	7000	\$0.67	\$4,690.00		\$0.00		\$0.00	0.0	\$0.00		
d	Per Diem	Day	32	\$150.00	\$4,800.00		\$0.00		\$0.00	0.0	\$0.00		
TASK V: POST-CONSTRUCTION OVERSIGHT													
A	FIELD VISITS / INSPECTIONS												
1	Project Manager / Senior Engineer	HR	24	\$190.00	\$4,560.00		\$0.00		\$0.00	0.0	\$0.00		
2	Construction Inspector	HR	24	\$125.00	\$3,000.00		\$0.00		\$0.00	0.0	\$0.00		
3	Mileage	Mile	600	\$0.67	\$402.00		\$0.00		\$0.00	0.0	\$0.00		
					SUBTOTAL PAGE 6 COST		SUBTOTAL PAGE 6 PREVIOUS		SUBTOTAL PAGE 6 THIS APPLICATION		SUBTOTAL PAGE 6 TO DATE		
					\$66,902.00		\$0.00		\$0.00		\$0.00		
					PROJECT TOTAL COST		PROJECT TOTAL PREVIOUS		PROJECT TOTAL THIS APPLICATION		PROJECT TOTAL TO DATE		
					\$248,720.50		\$0.00		\$0.00		\$0.00		

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: County Route 82 Portals (Page X of X Pages					
Contract Name: 2023 AML Contract S3											
Commodity Line: N/A											
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST

AML-7 (Revised 7/5/2023)

CONTRACT NAME: . Contract S3

GRAND TOTAL COST	\$248,720.50	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Winona Complex; WV-2205

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Winona Complex AML project. Proposed reclamation activities at the Winona Complex AML Site include the reclamation of two (2) defined areas, separated by County Route 82. The Winona Complex East site consists of one (1) open portal, three (3) collapsed / draining entries, one (1) abandoned structure and nine (9) abandoned highwalls. The west side, Winona Complex West, consists of two (2) collapsed / draining entries, five (5) open portals, four (4) abandoned structures, three (3) subsidence features, an acid mine drainage (AMD) feature, approximately 100' of clogged stream and 1000' of abandoned highwall. During the initial field visit with the WVDEP, approximately 300' of stream construction was added to the scope of work.

The highwalls will be eliminated, using the spoil material to backfill against the highwalls and tying into the surrounding areas to achieve approximate original contour (AOC) and ensure positive drainage toward Keeney Creek and its tributaries. United States Fish & Wildlife Service-approved bat gates with wet seals (as applicable) are proposed for all the abandoned entry ways. The associated waters will be captured and diverted, via constructed channels, to natural swales. All abandoned structures are proposed for demolition and their remnants will be buried in the backfills. The clogged stream and impacted stream will be reconstructed using standard engineering practices while implementing natural stream design components to ensure stream bank stabilization while enhancing the environment.



Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification and characterization, mine portal identification, and supplemental Phase I Potential Hibernaculum surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an Environmental Assessment (EA) document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. Standard engineering approaches for the stream reconstruction will be implemented. The Phase I bat assessments will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Air Quality
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security



Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for each individual stream crossing.
- NEPA documentation will be an Environmental Assessment.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.

Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.



Coordination with the USACE Huntington Regulatory District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration efforts. A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for each individual stream crossing, and the USACE Regional General Permit for Abandoned Mine Lands will be required for authorization of proposed impacts to aquatic and sensitive resources resulting from AML reclamation efforts. Coordination with the U.S. Army Corps of Engineers' (USACE) Huntington District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration work.

There are no floodplains located within the project area, so a floodplain construction permit is not required for this site.

Atlas' costs include permitting / notification requirements with the National Park Service (NPS) and coordination with the USACE.

The results from the initial physical investigation will be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion.

Atlas will assess the proposed site for potential impacts to the following areas:

- Water Resources / Water Quality
- Floodplain Management
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Biological Resources

Atlas has made the following assumptions:

- A USACE Regional General Permit for Abandoned Mine Lands will be required for proposed impacts to aquatic resources.
- Fieldwork includes initial wetland delineation and stream assessment, West Virginia Wetland Rapid Assessment Method analyses, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula surveys of the mine portals, as necessary.
- Coordination with the USACE Huntington District, and supplemental Clean Water Act Section 404 permitting will be required for stream restoration work.
- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals



- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets

This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

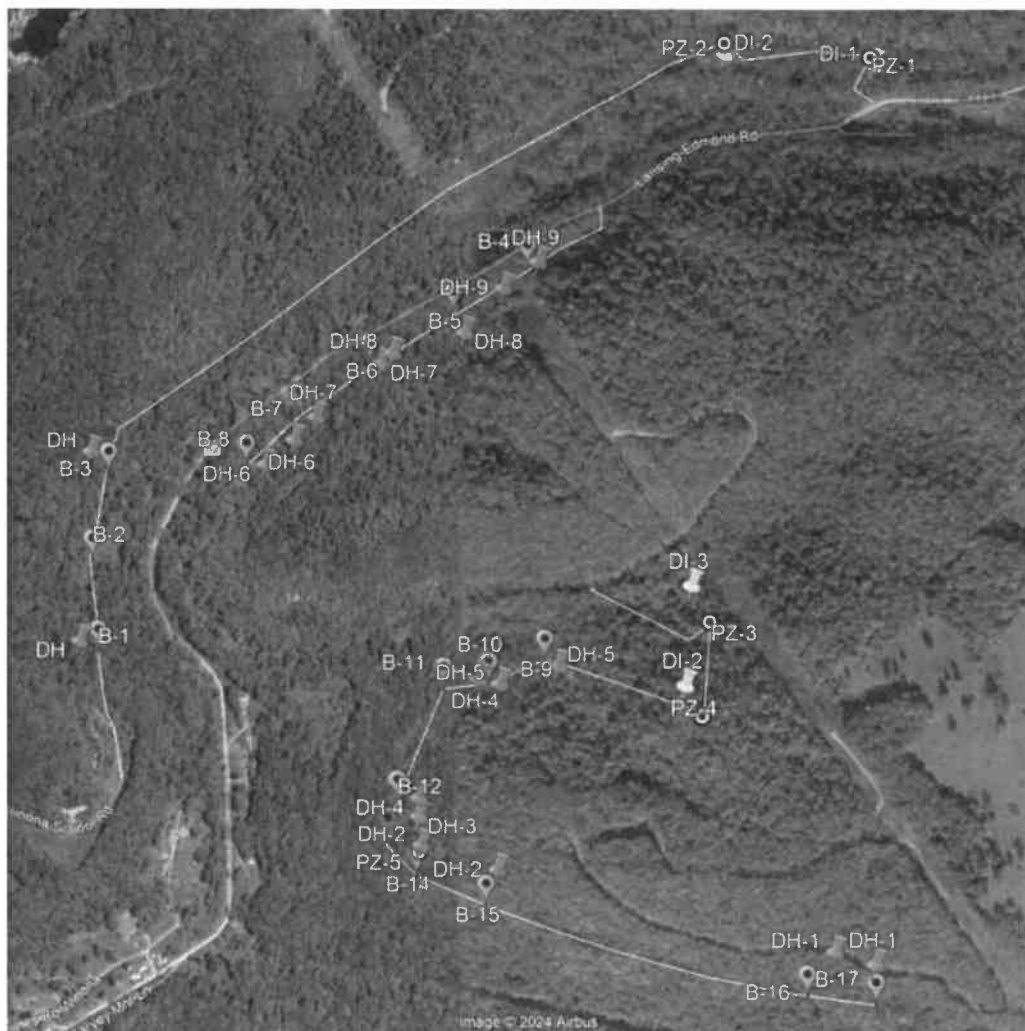
Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.



Geotechnical

Triad proposes to drill five (5) test borings to be used for the installation of piezometers at locations shown below for the purpose of obtaining information on the water level in the mine. In addition, we propose to drill seventeen (17) borings (B-1 – B-17) to help located possible sources of material for the regrading of highwalls. The borings will include Standard Penetration Testing at approximately 2.5-foot centers of the soil overburden and NQ2 rock coring in bedrock. Upon completion of borings PZ-1 through PZ-5 we will install piezometers into the mined-out coal seam. Triad will prepare a geotechnical report summarizing our findings. Our planned scope of services is more fully discussed below.



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing in the borings and rock coring through the base of the mined-out coal seam in PZ-1 through PZ-5. Considering these borings may encounter coal pillars, Triad proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:



Boring No	Description	Soil Drilling with standard sampling (L.F.)	Rock Drilling (L.F.)	Piezometer Pipe (L.F.)	Surface Elevation	Portal Elevation	Termination Criteria	Notes/Assumptions
PZ-1	Piezometer	15	135	50	2200	2250	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-1. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-2	Piezometer	15	135	50	2200	2250	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-2. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-3	Piezometer	15	135	50	2265	2315	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-3. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-4	Piezometer	15	135	50	2425	2475	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-2. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-5	Piezometer	15	135	50	2210	2260	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-1. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
		75	675	250				

Boring No	Description	Soil Drilling with standard sampling (L.F.)	Termination Criteria	Notes/Assumptions
B-1	DH Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-2	DH Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-3	DH Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-4	DH-9 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-5	DH-8 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-6	DH-8 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-7	DH-6 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-8	DH-6 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-9	DH-5 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-10	DH-5 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-11	DH-4 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-12	DH-4 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-13	DH-3 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-14	DH-2 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-15	DH-2 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-16	DH-1 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
B-17	DH-1 Highwall	25	25 feet or refusal	Evaluation of existing materials to be utilized for re-grading highwall areas.
		350		



The piezometers will consist of a 1.5-inch diameter PVC pipe (minimum) with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective cover will be installed at the ground surface. The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.

Access to this site will be from Lansing Edmond Road (County Route 82) and a gravel driveway off of CR 82. This will include accessing the site by tramming the drill rig and support equipment through wooded terrain, with some available trails, approximately 3 miles to access the boring locations. We anticipate that access will require the use of an excavator to make roads and clear brush for the entire duration and most of, if not all the 3 miles will need reclamation. After completion of drilling, we will perform restoration which includes re-grading any disturbed earth and a one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover. All disturbed areas will be seeded and mulched. All access and drill pads will be regarded to as close to original contours as possible. It should be noted that vegetative growth is not guaranteed. The estimated area of seeding and mulching is 3 miles by 12 feet. We have not included the cost for temporary erosion protection prior to cutting roads at the site. No creek crossings are assumed for this proposal.

Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Winona Complex AML Site consist of five-day work weeks for forty (40) weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Winona Complex; WV-2205 AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: Winona Complex (WV-2205)

PUR. ORD. NO.: _____

CONTRACT NAME: 2023 AML Contract S3

COMMODITY LINE	PROJECT NO.:	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
12	8585	Professional Svcs - Winona Complex	
		TOTAL AMOUNT DUE THIS INVOICE	\$0.00

INVOICE TYPE: REG. **[X]**
NO. 1

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES [] NO [X]

SIGNATURES AND DATES:

REALTY REPRESENTATIVE	PLANNING REPRESENTATIVE
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REALTY REPRESENTATIVE	PLANNING REPRESENTATIVE
-----------------------	-------------------------

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

AML-7 (Revised 7/5/2023)

ATTN: Clayton K. Roderick

VENDOR: ATC Group Services, LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

OASIS VENDOR CUSTOMER NUMBER: 189555

DATE OF SERVICE: FROM _____ TO _____

DATE OF APPLICATION FOR PYMT: _____

ORIGINAL CONTRACT SUM	\$730,073.45
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NET CHANGE BY CHANGE ORDERS	\$0.00
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TOTAL CONTRACT SUM TO DATE	\$730,073.45
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TOTAL BILLED TO DATE	\$0.00
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LESS PREVIOUS PAYMENT TO DATE	\$0.00
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CURRENT PAYMENT DUE	\$0.00
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% COMPLETE:	<u>\$0.00</u>	0.00%
	\$730,073.45	

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

VENDOR SIGNATURE AND DATE

VENDOR PRINTED NAME

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Winona Complex (WV-22)						Page 2 of 6 Pages		
Contract Name: 2023 AML Contract S3														
Commodity Line: 12														
Project Name: Professional Svcs - Winona Complex						WORK COMPLETED								
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE				
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST			
TASK I: NEPA & ESA														
A	Agency Coordinations (including Office Work, AMLNET, etc.)													
1	Project Manager / Senior Engineer	HR	12	\$175.00	\$2,100.00		\$0.00		\$0.00	0.0	\$0.00			
2	Engineer / Technical Scientist	HR	24	\$150.00	\$3,600.00		\$0.00		\$0.00	0.0	\$0.00			
3	Planning / Technical Specialist	HR	18	\$110.00	\$1,980.00		\$0.00		\$0.00	0.0	\$0.00			
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00			
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00			
B	Public Involvement (including Legal Ads, Public Hearings, Documents, Presentations, WVDEP's Website, etc.)													
1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00			
2	Engineer / Technical Scientist	HR	0	\$155.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00			
3	Planning / Technical Specialist	HR	20	\$135.00	\$2,700.00		\$0.00		\$0.00	0.0	\$0.00			
4	Mileage	Mile	500	\$0.67	\$335.00		\$0.00		\$0.00	0.0	\$0.00			
5	Per Diem	Day	2	\$159.00	\$318.00		\$0.00		\$0.00	0.0	\$0.00			
C	Studies, Surveys & Mitigation Plans (as applicable)													
1	Project Manager / Senior Engineer	HR	20	\$190.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00			
2	Ph I Hibernacula survey	LS	1	\$3,000.00	\$3,000.00		\$0.00		\$0.00	0.0	\$0.00			
3	Engineer / Technical Scientist	HR	20	\$105.00	\$2,100.00		\$0.00		\$0.00	0.0	\$0.00			
5	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00			
6	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00			
D	CATEX / EA / FONSI / EIS													
1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00			
2	Engineer / Technical Scientist	HR	16	\$150.00	\$2,400.00		\$0.00		\$0.00	0.0	\$0.00			
3	Planning / Technical Specialist	HR	20	\$105.00	\$2,100.00		\$0.00		\$0.00	0.0	\$0.00			
4	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00			
5	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00			
SUBTOTAL PAGE 2 COST					\$28,993.00	SUBTOTAL PAGE 2 PREVIOUS		\$0.00	SUBTOTAL PAGE 2 THIS APPLICATION		\$0.00	SUBTOTAL PAGE 2 TO DATE		\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Winona Complex (WV-22)			Page 3 of 6 Pages		
Contract Name: 2023 AML Contract S3											
Commodity Line: 12											
Project Name: Professional Svcs - Winona Complex						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST
TASK II: REALTY											
A	Exploratory Rights of Entry (EROE)										
1	Project Manager / Senior Engineer	HR	16	\$190.00	\$3,040.00		\$0.00		\$0.00	0.0	\$0.00
2	Realty Agent				\$0.00						
a	Courthouse Work	HR	12	\$135.00	\$1,620.00		\$0.00		\$0.00	0.0	\$0.00
b	Field Reconnaissance / Landowner Correspondence	HR	12	\$135.00	\$1,620.00		\$0.00		\$0.00	0.0	\$0.00
c	Office Work / AMLNET	HR	12	\$135.00	\$1,620.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	300	\$0.67	\$201.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$59.00	\$59.00		\$0.00		\$0.00	0.0	\$0.00
B	Construction Rights of Entry (CROE)										
1	Project Manager / Senior Engineer	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0	\$0.00
2	Realty Agent										
a	Courthouse Work	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0	\$0.00
b	Field Reconnaissance / Landowner Correspondence	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0	\$0.00
c	Office Work / AMLNET	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	300	\$0.67	\$201.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	1	\$59.00	\$59.00		\$0.00		\$0.00	0.0	\$0.00
C	Pre-Bid Conference										
1	Realty Agent	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0	\$0.00
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00
D	Pre-Construction Conference										
1	Realty Agent	HR	8	\$135.00	\$1,080.00		\$0.00		\$0.00	0.0	\$0.00
2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Winona Complex (WV-22)						Page 5 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 12													
Project Name: Professional Svcs - Winona Complex						WORK COMPLETED							
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION		UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST	
TASK III: DESIGN (CONTINUED)													
D		ANALYSIS AND DESIGN											
	1	Project Manager / Senior Engineer	HR	90	\$190.00	\$17,100.00		\$0.00		\$0.00	0.0	\$0.00	
	2	Senior Engineer	HR	60	\$185.00	\$11,100.00		\$0.00		\$0.00	0.0	\$0.00	
	3	Wetland & Stream Delineation / Portal Assessment	HR	80	\$135.00	\$10,800.00							
	4	WVWRAM Assessment	HR	20	\$135.00	\$2,700.00							
	5	Technical Specialist	HR	16	\$110.00	\$1,760.00							
	6	Equipment	LS	1	\$3,870.00	\$3,870.00							
	7	Environmental Specialist	HR	64	\$135.00	\$8,640.00		\$0.00		\$0.00	0.0	\$0.00	
	8	Staff Engineer	HR	80	\$175.00	\$14,000.00		\$0.00		\$0.00	0.0	\$0.00	
	9	CADD Technician	HR	40	\$110.00	\$4,400.00		\$0.00		\$0.00	0.0	\$0.00	
E		PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE											
	1	Project Manager / Senior Engineer	HR	50	\$190.00	\$9,500.00		\$0.00		\$0.00	0.0	\$0.00	
	2	Staff Engineer	HR	30	\$135.00	\$4,050.00		\$0.00		\$0.00	0.0	\$0.00	
	3	Environmental Specialist	HR	30	\$175.00	\$5,250.00		\$0.00		\$0.00	0.0	\$0.00	
	4	Environmental Scientist	HR	60	\$135.00	\$8,100.00		\$0.00		\$0.00	0.0	\$0.00	
	5	Technical Specialist	HR	20	\$110.00	\$2,200.00							
	6	CADD Technician	HR	40	\$110.00	\$4,400.00		\$0.00		\$0.00	0.0	\$0.00	
	7	Mileage	Mile	2000	\$0.67	\$1,340.00		\$0.00		\$0.00	0.0	\$0.00	
	8	Per Diem	Day	12	\$159.00	\$1,908.00							
F		PERMITTING											
	1	Project Manager / Senior Engineer	HR	40	\$190.00	\$7,600.00		\$0.00		\$0.00	0.0	\$0.00	
	2	Staff Engineer / Environmental Scientist	HR	104	\$175.00	\$18,200.00		\$0.00		\$0.00	0.0	\$0.00	
	3	Senior Administrative	HR	40	\$95.00	\$3,800.00		\$0.00		\$0.00	0.0	\$0.00	
	4	Technical Specialist	HR	20	\$110.00	\$2,200.00							
	5	Staff Geologist	HR	60	\$135.00	\$8,100.00		\$0.00		\$0.00	0.0	\$0.00	
	6	CADD Technician	HR	40	\$110.00	\$4,400.00		\$0.00		\$0.00	0.0	\$0.00	
	7	WVDEP AML RGP/USACE Coord.	HR	56	\$150.00	\$8,400.00							
	8	Mileage	Mile	1200	\$0.67	\$804.00		\$0.00		\$0.00	0.0	\$0.00	
	9	Per Diem	Day	2	\$159.00	\$318.00		\$0.00		\$0.00	0.0	\$0.00	
G		PRE-BID CONFERENCE											
	1	Project Manager / Senior Engineer	HR	8	\$175.00	\$1,400.00		\$0.00		\$0.00	0.0	\$0.00	
	2	Mileage	Mile	0	\$0.67	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
	3	Per Diem	Day	0	\$159.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00	
H		PRE-CONSTRUCTION CONFERENCE											
	1	Project Manager / Senior Engineer	HR	8	\$175.00	\$1,400.00		\$0.00		\$0.00	0.0	\$0.00	
	2	Construction Inspector	HR	8	\$125.00	\$1,000.00		\$0.00		\$0.00	0.0	\$0.00	
	3	Mileage	Mile	600	\$0.67	\$402.00		\$0.00		\$0.00	0.0	\$0.00	
SUBTOTAL PAGE 5 COST					\$169,142.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00		

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0	Application No.: Winona Complex (WV-22)	Page 6 of 6 Pages
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Page 6 of 6 Pages

WORK COMPLETED

[illegible]

PROJECT TOTAL COST	\$730,073.45	PROJECT TOTAL PREVIOUS	\$0.00	PROJECT TOTAL THIS APPLICATION	\$0.00	PROJECT TOTAL TO DATE	\$0.00
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AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Winona Complex (WV-22)			Page X of X Pages		
Contract Name: 2023 AML Contract S3											
Commodity Line: N/A											
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST

AML-7 (Revised 7/5/2023)

CONTRACT NAME: . Contract S3

GRAND TOTAL COST	\$730,073.45	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		



Project Scoping Narrative 2023 AML Contract – S3

Winona East Highwall and Drainage WV-7134

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Winona East Highwall and Drainage AML project. Proposed reclamation activities at the Winona East Highwall and Drainage AML Site include the reclamation of several abandoned mine land features throughout the site consisting of 30+ acres. The Winona East Highwall and Drainage site consists of one (1) open portal, sixteen (16) collapsed / draining entries, 400 feet of clogged stream, two (2) coal refuse areas, one (1) abandoned structure and seven (7) abandoned highwalls. During the initial field visit with the WVDEP, approximately 3000' of abandoned highwall was added to the scope of work.

The highwalls will be eliminated, using the spoil material to backfill against the highwalls and tying into the surrounding areas to achieve approximate original contour (AOC) and ensure positive drainage toward Keeney Creek and its tributaries. United States Fish & Wildlife Service-approved bat gates with wet seals (as applicable) are proposed for all the abandoned entry ways. The associated waters will be captured and diverted, via constructed channels, to natural swales. The clogged stream and impacted stream will be reconstructed using standard engineering practices while implementing natural stream design components to ensure stream bank stabilization while enhancing the environment.



Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources (WV DNR) to address ESA concerns, the WV Historic Preservation Office (WV SHPO) to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification and characterization, mine portal identification, and supplemental Phase I Potential Hibernaculum surveys (as required per WV USFWS). Results from this initial assessment will be provided in separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation. The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an Environmental Assessment (EA) document, in compliance with Office of Surface Mining Reclamation and Enforcement (OSMRE) guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. The Phase I bat assessments will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include the fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Air Quality
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security



Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for each individual stream crossing.
- NEPA documentation will be an Environmental Assessment.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Adverse impacts to existing wetlands will be avoided to the maximum extent practicable.

Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design of the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.



Coordination with the USACE Huntington Regulatory District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration efforts. A WV DNR OLS Stream Activity Permit (Right of Entry) will be required for each individual stream crossing, and the USACE Regional General Permit for Abandoned Mine Lands will be required for authorization of proposed impacts to aquatic and sensitive resources resulting from AML reclamation efforts.

Standard engineering approaches for the stream reconstruction will be implemented. Coordination with the U.S. Army Corps of Engineers' (USACE) Huntington District, and supplemental Clean Water Act Section 404 federal permitting will be required for stream restoration work.

Results from the initial assessment will be provided in the separate Wetland Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation.

Atlas will assess the proposed site for potential impacts to the following areas:

- Water Resources / Water Quality
- Floodplain Management
- Terrestrial and Aquatic Environment
- Wetland / Streams, Surface Waters
- Biological Resources

Atlas has made the following assumptions:

- A USACE Regional General Permit for Abandoned Mine Lands will be required for proposed impacts to aquatic resources.
- Fieldwork includes initial wetland delineation and stream assessment, West Virginia Wetland Rapid Assessment Method analyses, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent Phase I hibernacula surveys of the mine portals, as necessary.
- Coordination with the USACE Huntington District, and supplemental Clean Water Act Section 404 permitting will be required for stream restoration work.
- Supplemental state/Federal permitting may be required for additional potentially-jurisdictional aquatic resources identified during initial baseline assessment services.

Atlas understands that the scope of work for these projects will be centered around the following possible tasks associated with removing features and repairing conditions left as a result of underground mining and surface works in the project areas. The work to be performed might include:

- Access Road Upgrade
- Channel Improvements
- Portal Wet Seals
- Splash-Pads
- Excavation and Fill Placement
- Conditioning & Revegetation
- Temporary Stream Crossing
- Stream Restoration
- Gabion Baskets, Riprap, HDPE Culverts, Drop Inlets



This summary is based on the OSM-51 forms provided by West Virginia Department of Environmental Protection Office of AML and Reclamation (AML). Our scope of work has been refined during site visits, subsequent conversations, information obtained by the property landowner, and by Atlas Environmental. For projects where the landowner is the National Parks Service (NPS), additional information was also provided by them.

Survey

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Dangerous Slides
- Subsidence
- Approximately six (6) acres of planimetric, topographic and check surveying (AML site and 100-foot width strip top drainage path for design purposes)
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles

Triad will also install a minimum of three (3) "control points" that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits.

Quality Level / Accuracy Standard

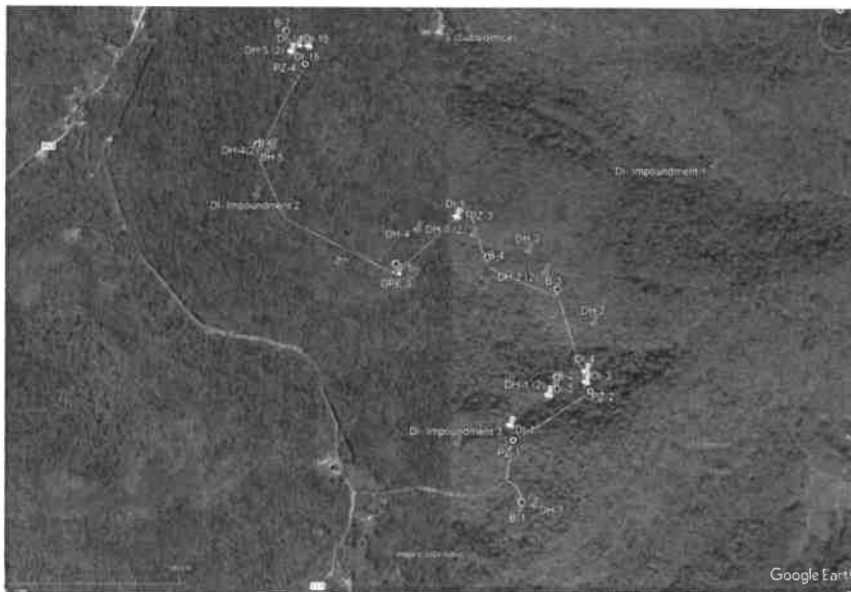
Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.



Geotechnical

Triad proposes to drill eight (8) test borings to be used for the installation of piezometers (PZ-1 – PZ-8) at locations illustrated below for the purpose of obtaining information on the water level in the mine. In addition, we propose to drill eight (8) borings (B-1 – B-8) to help locate possible sources of material for re-grading of the highwalls. The borings will include Standard Penetration Testing at approximately 2.5-foot centers of the soil overburden and NQ2 rock coring in bedrock. Upon completion of the borings PZ-1 through PZ-8, we plan to install piezometers into the mined-out coal seam. Triad will prepare a geotechnical report summarizing our findings. Our planned scope of services is more fully discussed below.



ATLAS



Triad proposes to accomplish the test borings with a track- or ATV-mounted rotary auger drill rig and perform Standard Penetration Testing in the borings and rock coring through the base of the mined-out coal seam in PZ-1 through PZ-8. Considering these borings may encounter coal pillars, Triad proposes to drill up to two offset holes at each location to allow the piezometer to be installed in the open void of the mined seam. The proposed drilling depths are as follows:

Boring No	Description	Soil Drilling with standard sampling (L.F.)	Rock Drilling (L.F.)	Piezometer Pipe (L.F.)	Surface Elevation	Portal Elevation	Termination Criteria	Notes/Assumptions
PZ-1	Piezometer	15	135	50	2480	2430	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-1. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-2	Piezometer	15	135	50	2490	2440	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-3, 4. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-3	Piezometer	15	135	50	2430	2380	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-5. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-4	Piezometer	15	135	50	2240	2290	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-14, 15, 16. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-5	Piezometer	15	135	50	2330	2280	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-6, 7. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-6	Piezometer	15	135	50	2350	2300	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-8, 9. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-7	Piezometer	15	135	50	2380	2330	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-10, 11, 12. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
PZ-8	Piezometer	15	135	50	2425	2375	Open Mine Void- Coal Pavement	Drilling to set piezometer to monitor water levels in mines near DI-13. Assuming 5 feet of soil and 45 feet of rock. Assuming 3 attempts should we encounter solid coal on first attempt.
		120	1080	400				



Boring No	Description	Soil Drilling with standard sampling (L.F.)	Surface Elevation	Termination Criteria	Notes/Assumptions
B-1	Potential Borrow Source	15	2450	15 feet or auger refusal	Material boring.
B-2	Potential Borrow Source	15	2430	15 feet or auger refusal	Material boring.
B-3	Potential Borrow Source	15	2420	15 feet or auger refusal	Material boring.
B-4	Potential Borrow Source	15	2390	15 feet or auger refusal	Material boring.
B-5	DPE3 Boring	15	2350	15 feet or bottom of DPE.	Drill to refusal or bottom of DPE3.
B-6	Potential Borrow Source	15	2220	15 feet or auger refusal	Material boring.
B-7	Potential Borrow Source	15	2220	15 feet or auger refusal	Material boring.
B-8	Potential Borrow Source	15	2295	15 feet or auger refusal	Material boring.
		120			

The piezometers will consist of a 1.5-inch diameter PVC pipe (minimum) with a 10-foot screened section through the mined-out coal seam. A bentonite seal will be placed above the screen and the remainder of the hole will be grouted. A protective lockable cover will be installed at the ground surface.

The piezometers will be checked for groundwater upon completion and daily while on-site. Triad will make two (2) trips back to the site to obtain additional groundwater level readings. The piezometers will not be abandoned as part of this scope of work. A geotechnical engineer or geologist from our office will be present during the field work to supervise the field exploration program and log each boring.

Access to this site will be from Upper Fork Road and Old Cliff Top Road (County Route 11). This will include accessing the site by tramping the drill rig and support equipment through wooded terrain, with some available trails, approximately 2.6 miles to the farthest proposed boring location. We anticipate that access will require the use of an excavator to make roads and clear brush for the entire duration and most of, if not all the 2.6 miles will need reclamation. After completion of drilling, we will perform restoration which includes re-grading any disturbed earth and a one-time reclamation of the disturbed areas utilizing a local seed mixture and straw cover. All access and drill pads will be regraded to as close to original contours as possible.



It should be noted that vegetative growth is not guaranteed. The estimated area of seeding and mulching is 2.6 miles by 12 feet. We have not included the cost for temporary erosion protection prior to cutting roads at the site. No creek crossings are assumed for this proposal.

Unmarked underground utilities pose a grave threat to workers performing subsurface drilling and excavation. Because of this, Triad will contact the appropriate public utility location service (e.g., West Virginia 811, One-Call, etc.) to mark underground utilities prior to our subsurface exploration. However, it must be noted that public utility location services will not mark private underground lines or public underground utilities beyond a meter.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Winona East Highwall and Drainage AML Site consist of five-day work weeks for forty (40) weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Winona East Highwall and Drainage; WV-7134 AML Site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: Winona East Highwall & Drainage (WV-7134)

PUR. ORD NO.: _____

CONTRACT NAME: 2023 AML Contract S3

OASIS VENDOR CUSTOMER NUMBER: 189555

DATE OF APPLICATION FOR PYMT: _____

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

VENDOR PRINTED NAME

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Project Name:	Professional Svcs - Winona East HW & Drainage
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Page 2 of 6 Pages

SCHEDULE PER CONTRACT

TOTAL BILLED TO DATE

AML-7A (Revised 7/5/2023)

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 3 of 6 Pages

Project Name:	Professional Svcs - Winona East HW & Drainage
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TOTAL BILLED TO DATE

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Winona East Highwall & I						Page 4 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 13													
Project Name: Professional Svcs - Winona East HW & Drainage													
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	WORK COMPLETED					
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
								UNITS	COST	UNITS	COST		
TASK III: DESIGN													
A	SITE RECONNAISSANCE AND INVESTIGATIONS												
1	Project Manager / Senior Engineer	HR	44	\$190.00	\$8,360.00		\$0.00		\$0.00	0.0	\$0.00		
2	Staff Engineer	HR	40	\$185.00	\$7,400.00		\$0.00		\$0.00	0.0	\$0.00		
3	Environmental Scientist	HR	36	\$150.00	\$5,400.00								
4	Mileage	Mile	2000	\$0.67	\$1,340.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	8	\$159.00	\$1,272.00		\$0.00		\$0.00	0.0	\$0.00		
B	SURVEYING & MAPPING												
1	Project Manager	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00		
2	Professional Surveyor / Chief Surveyor	HR	30	\$150.00	\$4,500.00		\$0.00		\$0.00	0.0	\$0.00		
3	Survey Crew (3-Man)	HR	144	\$240.00	\$34,560.00		\$0.00		\$0.00	0.0	\$0.00		
4	Senior Technician (CAD - Base Mapping)	HR	55	\$110.00	\$6,050.00		\$0.00		\$0.00	0.0	\$0.00		
5	Topographic, Planimetric and Check Surveying	Acre	30	\$125.00	\$3,750.00		\$0.00		\$0.00	0.0	\$0.00		
6	Mileage	Mile	2150	\$0.67	\$1,440.50		\$0.00		\$0.00	0.0	\$0.00		
7	ATV Support Vehicle	Day	0	\$250.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
8	GNSS Equipment Rental	MO	1	\$500.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00		
C	GEOTECHNICAL INVESTIGATION												
1	Project Manager	HR	16	\$150.00	\$2,400.00		\$0.00		\$0.00	0.0	\$0.00		
2	Senior Engineer	HR	24	\$185.00	\$4,440.00		\$0.00		\$0.00	0.0	\$0.00		
3	Geotechnical Engineer / Geologist	HR	270	\$125.00	\$33,750.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mobilization / Demobilization	LS	1	\$12,800.00	\$12,800.00		\$0.00		\$0.00	0.0	\$0.00		
5	Soil Augering with Sampling	LF	240	\$30.00	\$7,200.00		\$0.00		\$0.00	0.0	\$0.00		
6	Rock Coring	LF	1080	\$42.00	\$45,360.00		\$0.00		\$0.00	0.0	\$0.00		
7	Water Hauling / Pumping	Day	20	\$600.00	\$12,000.00		\$0.00		\$0.00	0.0	\$0.00		
8	Heavy Equipment	HR	200	\$195.00	\$39,000.00		\$0.00		\$0.00	0.0	\$0.00		
9	Piezometer Installation	LF	400	\$40.00	\$16,000.00		\$0.00		\$0.00	0.0	\$0.00		
10	Reclamation	LS	1	\$20,000.00	\$20,000.00		\$0.00		\$0.00	0.0	\$0.00		
11	Geotechnical Investigation Report	LS	1	\$6,500.00	\$6,500.00		\$0.00		\$0.00	0.0	\$0.00		
12	Mileage	Mile	1800	\$0.67	\$1,206.00		\$0.00		\$0.00	0.0	\$0.00		
13	Lockable Protective Cover	EA	8	\$250.00	\$2,000.00								
				SUBTOTAL	\$279,508.50	SUBTOTAL	\$0.00	SUBTOTAL	\$0.00	SUBTOTAL	\$0.00		
				PAGE 4 COST		PAGE 4 PREVIOUS		PAGE 4 THIS APPLICATION		PAGE 4 TO DATE			

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Winona East Highway & I						Page 5 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 13													
Project Name: Professional Svcs - Winona East HW & Drainage													
SCHEDULE PER CONTRACT						WORK COMPLETED							
						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE			
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	UNITS	COST	UNITS	COST	UNITS	COST		
TASK III: DESIGN (CONTINUED)													
D	ANALYSIS AND DESIGN												
1	Project Manager / Senior Engineer	HR	76	\$190.00	\$14,440.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Technical Scientist	HR	16	\$105.00	\$1,680.00		\$0.00		\$0.00	0.0	\$0.00		
3	Wetland & Stream Delineation / Portal Assessment	HR	130	\$135.00	\$17,550.00								
4	WVWRAM Assessment	HR	20	\$135.00	\$2,700.00								
5	Environmental Specialist	HR	40	\$135.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00		
6	Staff Engineer	HR	60	\$175.00	\$10,500.00		\$0.00		\$0.00	0.0	\$0.00		
7	CADD Technician	HR	32	\$110.00	\$3,520.00		\$0.00		\$0.00	0.0	\$0.00		
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE												
1	Project Manager / Senior Engineer	HR	76	\$190.00	\$14,440.00		\$0.00		\$0.00	0.0	\$0.00		
2	Geotechnical Engineer	HR	60	\$135.00	\$8,100.00		\$0.00		\$0.00	0.0	\$0.00		
3	Environmental Specialist	HR	60	\$135.00	\$8,100.00		\$0.00		\$0.00	0.0	\$0.00		
4	Staff Engineer	HR	40	\$175.00	\$7,000.00		\$0.00		\$0.00	0.0	\$0.00		
5	Senior Administrative	HR	4	\$95.00	\$380.00		\$0.00		\$0.00	0.0	\$0.00		
6	CADD Technician	HR	200	\$110.00	\$22,000.00		\$0.00		\$0.00	0.0	\$0.00		
7	Equipment	LS	1	\$6,000.00	\$6,000.00								
8	Mileage	Mile	3000	\$0.67	\$2,010.00								
9	Per Diem	Day	36	\$159.00	\$5,724.00								
F	PERMITTING												
1	Project Manager / Senior Engineer	HR	76	\$190.00	\$14,440.00		\$0.00		\$0.00	0.0	\$0.00		
2	Staff Engineer	HR	60	\$175.00	\$10,500.00		\$0.00		\$0.00	0.0	\$0.00		
3	CADD Technician	HR	60	\$110.00	\$6,600.00		\$0.00		\$0.00	0.0	\$0.00		
4	Senior Administrative	HR	12	\$95.00	\$1,140.00		\$0.00		\$0.00	0.0	\$0.00		
5	Environmental Specialist	HR	40	\$135.00	\$5,400.00		\$0.00		\$0.00	0.0	\$0.00		
6	WVDEP AML RGP/USACE Coord.	HR	40	\$150.00	\$6,000.00		\$0.00		\$0.00	0.0	\$0.00		
7	Mileage	Mile	100	\$0.67	\$67.00		\$0.00		\$0.00	0.0	\$0.00		
8	Per Diem	Day	2	\$159.00	\$318.00		\$0.00		\$0.00	0.0	\$0.00		
G	PRE-BID CONFERENCE												
1	Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00	0.0	\$0.00		
2	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
H	PRE-CONSTRUCTION CONFERENCE												
1	Project Manager / Senior Engineer	HR	3	\$175.00	\$525.00		\$0.00		\$0.00	0.0	\$0.00		
2	Construction Inspector	HR	3	\$125.00	\$375.00		\$0.00		\$0.00	0.0	\$0.00		
3	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
					SUBTOTAL PAGE 5 COST	\$175,434.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00	

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Application No.: Winona East Highwall & Page 6 of 6 Pages

Application No.: Winona East Highwall &

Page 6 of 6 Pages

WORK COMPLETED

AML-7A (Revised 7/5/2023)

Professional Svcs - Winona East HW & Drainage

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Winona East Highway & Page X of X Pages					
Contract Name: 2023 AML Contract S3											
Commodity Line: N/A											
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST

CONTRACT NAME: . Contract S3

GRAND TOTAL COST	\$800,540.50	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET			\$0.00	



Project Scoping Narrative 2023 AML Contract – S3

Buffalo Creek Complex WV-1924

Fayette County, West Virginia

ATC Group Services LLC, dba Atlas Technical Consultants (Atlas), is pleased to present the scope of work for the proposed Buffalo Creek Complex AML project. The project consists of three (3) abandoned silos; a coal refuse area; and miscellaneous support structures that include foundations, piers and other structures.

Proposed Scope of Work

Based upon Atlas' initial research, we propose the following Tasks and services:

Task No. 1 – NEPA and ESA

Atlas will provide baseline assessment, planning, engineering, and environmental services required for federal and state permitting and agency correspondence per the National Environmental Policy Act (NEPA) consultation process for Federally-funded projects, which takes into consideration the Endangered Species Act (ESA) related to protection and recovery of imperiled species and their ecosystems, and Section 106 of the National Historic Preservation Act (NHPA) related to protection of historic architectural (aboveground) and archaeological (below-ground) resources.

Atlas will submit initial NEPA consultations to the U.S. Fish and Wildlife Service's (USFWS) West Virginia Ecological Field Office and WV Division of Natural Resources to address ESA concerns, the WV Historic Preservation Office to address NHPA concerns, and appropriate regional development authorities to address potential operational conflicts. The responses and follow-up correspondence will be provided as part of the permitting process. Following initial NEPA consultation, Atlas will conduct a baseline assessment of the site including a physical investigation consisting of wetland delineation, stream identification, mine portal identification, and supplemental Phase I Habitat Assessment surveys (as necessary per WV USFWS). Results from this initial assessment will be provided in separate Wetland



Delineation and Phase I Habitat Assessment reports, summarizing the findings of initial field investigation.

The results from the initial physical investigation will also be implemented into the overall project design to further minimize potential environmental impacts to known natural and cultural resources in the area resulting from project completion. Atlas will compile the findings of the studies into an abbreviated Environmental Assessment (EA) document, in compliance with OSMRE guidelines, taking into account the purpose and need of the proposed action, any alternatives, and a brief review of potential impacts. The Phase I Habitat Assessment for threatened and endangered bat species, including survey of potentially-suitable hibernaculum, will be conducted by our subcontractor BioSurvey Group with technical assistance provided by Atlas. The costs included in this proposal include fieldwork, reporting, and initial agency consultation components.

Atlas will assess the proposed site for potential impacts to the following areas:

- Geology, Soils / NRCS
- Water Resources / Water Quality
- Floodplain Management
- Air Quality
- Terrestrial and Aquatic Environment
- Wetlands / Streams, Surface Waters
- RTE Species / Ecological Resources
- Migratory Birds
- Zoning and Land Use
- Visual Resources / Viewshed
- Noise
- Utilities
- Traffic
- Environmental Justice
- Safety and Security

Atlas has made the following assumptions:

- Field staff will be stationed in Fayetteville for the life of the field studies
- There will be no stream encroachments.
- No impacts to streams, wetlands, surface waters, or other aquatic features from project completion.
- No federal or state stream permitting required.
- Office of Surface Mining Reclamation and Enforcement is the lead agency.
- Fieldwork includes initial wetland delineation and stream assessment, identification of mine portals, Phase I Habitat Assessment for threatened and endangered bat species, and subsequent presence/absence surveys of the silos for threatened and endangered bat species (as deemed necessary by WV USFWS). No mine portals present.
- NEPA documentation will be the abbreviated EA form.
- WV USFWS will make the final determination on whether emergence surveys for threatened and endangered bat species are required for the silos.



Task No. 2 – Realty

Atlas will research legal ownership of the properties by conducting a thorough search of deed records at the Fayette County courthouse and provided copies of the legal documentation to substantiate legal ownership findings for the properties located within the proposed project areas, as well as adjacent properties. Atlas will contact the landowner(s) and acquire all Rights-of-Entry, that include the Exploratory Rights-of-Entry (EROE) and Construction Rights-of-Entry (CROE), and temporary and permanent ingress/egress rights for the projects. Additionally, Atlas will provide progress information on the WVDEP/AMLNET system, as required.

Atlas will communicate with the WVDEP's realty representative, as needed, to the progress of landowner negotiations, landowner questions and concerns and the status of the agreements. If a landowner should request to be an additional insurer, the landowners making the request will be added as an additional insured.

Atlas will attend the pre-bid and pre-construction meetings to address any realty-related issues. Additional consideration will be given to the fact that ownership may have changed between the initial research, the pre-bid meeting and the pre-construction meeting and a new / revised CROE agreement would be obtained. The CROE packets will be updated to ensure that no property ownership has changed between the times of the pre-bid and pre-construction meetings.

Pre-construction photographs of the proposed sites will be taken and uploaded onto the AMLNET website, along with the EROE and CROE Realty packets. It is assumed that Atlas personnel will have access to AMLNET.

Task No. 3 – Design

Atlas will conduct all necessary field reconnaissance for the completion of all requisite reporting and permitting. The findings will be used in completing the design and permitting work necessary to complete the reclamation design the sites.

The project site will disturb greater than 1 acre of land; therefore, a NPDES General Construction Permit will be required through WVDEP. The permit application will be submitted through the WVDEP Electronic Submittal System (ESS). The permit application will cover project site Erosion and Sedimentation drawings with detailed plans for BMPs. All discharges from this site will be composed entirely of stormwater.

There is a floodplain located within the project area; therefore, a Floodplain construction permit will be required through the Fayette County floodplain ordinance. Using the Flood Insurance Rate Map (FIRM) it was determined this floodplain is not a 100-year FEMA floodplain or an AE zone. Upon submittal of the permit application, Atlas will supply hydrologic and hydraulic calculations showing that the proposed encroachment will not result in any increase in flood levels during the base flood discharge. The floodplain construction permit application will be submitted to the Floodplain Administrator for technical review and approval.



Atlas' costs include permitting / notification requirements with the National Park Service (NPS) and coordination with the owner(s) of the rail line that encroaches the project limits. It is the responsibility of the WVDEP to incur the railroad flagger fees and permitting fees, if applicable.

Triad surveyors will verify the existing LIDAR mapping from the WV Elevation and LIDAR Data Download Tool. Contours available for the project areas are high resolution derived from LIDAR and photogrammetry ranging from 2-foot to 1-foot intervals. Triad will conduct field and office survey operations to collect and compile field-collected data and record data sufficient to locate the AML features identified by the design team, including:

- Clogged Stream Lands
- Dangerous Highwalls
- Dangerous Impoundments
- Dangerous Piles and Embankments
- Dangerous Slides
- Hazardous Equipment & Facilities
- Hazardous Water Bodies
- Industrial/Residential Waste
- Portals
- Subsidence
- Vertical Openings
- Spoil Piles
- Plans and Specifications
- Approximately 6 acres of planimetric, topographic and check surveying (includes 100-foot width topo along old conveyer route)

Triad will also install a minimum of three "control points" (semi-permanent survey control points) that can be used during construction by the contractor during construction. It is assumed for this proposal that no boundary retracements will be required. Triad will utilize shapefiles for the property boundaries and locate property corners or other boundary evidence that may be recoverable within the survey limits. Triad is proposing 12-hour workdays in order to reduce costs by lessening travel time and associated per diem. Revised Proposal for Survey Services Quality Level / Accuracy Standard Provision of the above-described survey services will be conducted in strict accordance with the "Standards for the Practice of Surveying in West Virginia" as defined in Title 23 Series 5 of Legislative Rules for the West Virginia Board of Professional Surveyors, effective May 1, 2008.

Atlas / Triad is not responsible for the permitting and related fees for obtaining access within the railroad right-of-way. The WVDEP is responsible for the flagger fees.

Accuracy of the survey will meet or exceed the positional accuracy standards as set forth in Section E (Topographic Surveys) of the National Model Standards published by the National Society of Professional Surveyors (NSPS), effective March 12, 2002.

Task No. 4 – Construction Oversight

Atlas and Triad will provide engineering support to the WVDEP and the contractors throughout the life of the construction activities and will address any questions or concerns that may arise during the activities. It is assumed field personnel will be on-site during the life of the construction/demolition and reclamation activities. The costs associated with this task at the Buffalo Creek Complex consist of five-



day work weeks for eight weeks of construction oversight. Atlas will conduct wage rate interviews and ensure certified payrolls are submitted with payment applications in compliance with the Davis-Bacon Act.

Task No. 5 – Post-Construction Oversight

Atlas will provide field personnel to monitor and document site conditions to determine if the construction met the design objectives and the level of success with the construction. Additionally, Atlas will coordinate the frequency of post-construction oversight needed for each of the sites.

Cost Estimates

Please refer to the cost spreadsheet for the Buffalo Creek Complex site.

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION APPLICATION AND CERTIFICATE FOR PAYMENT

TO: WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
601 57TH ST SE
CHARLESTON, WV 25304

APPLICATION NUMBER: Buffalo Creek Complex Site (WV-1924)

PUR. ORD. NO.: _____

CONTRACT NAME: 2023 AML Contract S3

ATTN: Clayton K. Roderick

VENDOR: ATC Group Services LLC

ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

REMIT ADDRESS: 270 William Pitt Way
Pittsburgh, PA 15238

OASIS VENDOR CUSTOMER NUMBER: 189555

COMMODITY LINE	PROJECT NO.:	DESCRIPTION (Project Name)	AMOUNT DUE THIS INVOICE
14	EPAM24011	Professional Svcs - Buffalo Creek Complex	\$0.00
		TOTAL AMOUNT DUE THIS INVOICE	\$0.00

DATE OF SERVICE: FROM _____ TO _____

DATE OF APPLICATION FOR PYMT: _____

INVOICE TYPE: REG. [**X**]
NO. 1

ALL WORK IS COMPLETE AND THIS IS THE FINAL INVOICE ON THIS CONTRACT:
YES [] NO [X]

SIGNATURES AND DATES:

REALTY REPRESENTATIVE

PLANNING REPRESENTATIVE

DESIGN REPRESENTATIVE

CONSTRUCTION REPRESENTATIVE

AML REPRESENTATIVE

ORIGINAL CONTRACT SUM	\$179,399.50
NET CHANGE BY CHANGE ORDERS	\$0.00
TOTAL CONTRACT SUM TO DATE	\$179,399.50
TOTAL BILLED TO DATE	\$0.00
LESS PREVIOUS PAYMENT TO DATE	\$0.00
CURRENT PAYMENT DUE	\$0.00

% COMPLETE:	<u>\$0.00</u>	0.00%
	\$179,399.50	

The undersigned Vendor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents and that the current payment shown herein is now due.

VENDOR SIGNATURE AND DATE

VENDOR PRINTED NAME

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 2 of 6 Pages

Project Name:	Professional Svcs - Buffalo Creek Complex
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TOTAL BILLED TO DATE

AML-7A (Revised 7/5/2023)

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 3 of 6 Pages

Application No.: Buffalo Creek Complex Si

Application No.: Buffalo Creek Complex Si

Application No.: Buffalo Creek Complex Si

SCHEDULE PER CONTRACT

AML-7A (Revised 7/5/2023)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Buffalo Creek Complex Site		Page 4 of 6 Pages			
Contract Name: 2023 AML Contract S3											
Commodity Line: 14											
Project Name: Professional Svcs - Buffalo Creek Complex						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST
TASK III: DESIGN											
A	SITE RECONNAISSANCE AND INVESTIGATIONS										
1	Project Manager / Senior Engineer	HR	16	\$190.00	\$3,040.00		\$0.00		\$0.00	0.0	\$0.00
	Senior Engineer		12	\$175.00	\$2,100.00						
2	Staff Engineer	HR	12	\$135.00	\$1,620.00		\$0.00		\$0.00	0.0	\$0.00
3	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
B SURVEYING & MAPPING											
1	Project Manager / Senior Engineer	HR	12	\$190.00	\$2,280.00		\$0.00		\$0.00	0.0	\$0.00
2	Professional Surveyor / Chief Surveyor	HR	32	\$150.00	\$4,800.00		\$0.00		\$0.00	0.0	\$0.00
3	Survey Crew (3 man)	HR	48	\$240.00	\$11,520.00		\$0.00		\$0.00	0.0	\$0.00
5	Senior Technician (CAD-Base Mapping)	HR	36	\$110.00	\$3,960.00		\$0.00		\$0.00	0.0	\$0.00
6	Topographic, Planimetric and Check Surveying	HR	0	\$125.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
7	Mileage	Mile	800	\$0.67	\$536.00		\$0.00		\$0.00	0.0	\$0.00
8	Per Diem	Day	0	\$50.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
9	ATC Support Vehicle	Day	2	\$250.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00
10	CSX Training (1-time training)	EA	1	\$0.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
11	CSX Flagger	HR	0	\$300.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00
12	GNSS Equipment Rental	MO	1	\$500.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00
C GEOTECHNICAL INVESTIGATION											
1	Project Manager / Senior Engineer	HR	4	\$190.00	\$760.00		\$0.00		\$0.00	0.0	\$0.00
2	Geotechnical Engineer/Geologist	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
3	Mobilization / Demobilization	LS	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
4	Soil Augering	LF	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
5	Rock Coring	LF	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
6	Heavy Equipment	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
7	Piezometer Installation	LF	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
8	Drill Crew Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
9	Reclamation	LS	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
10	Geotechnical Investigation Report	LS	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
11	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
12	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00
SUBTOTAL PAGE 4 COST					\$31,616.00	SUBTOTAL PAGE 4 PREVIOUS		\$0.00	SUBTOTAL PAGE 4 THIS APPLICATION		\$0.00
SUBTOTAL PAGE 4 TO DATE						SUBTOTAL PAGE 4 TO DATE			SUBTOTAL PAGE 4 TO DATE		\$0.00

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Purchase Order No.: 0						Application No.: Buffalo Creek Complex Si						Page 5 of 6 Pages	
Contract Name: 2023 AML Contract S3													
Commodity Line: 14													
Project Name: Professional Svcs - Buffalo Creek Complex													
SCHEDULE PER CONTRACT						WORK COMPLETED							
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	COST	PREVIOUS UNITS	PREVIOUS BILLED COST	THIS APPLICATION UNITS	AMOUNT DUE THIS APPLICATION COST	TOTAL BILLED TO DATE UNITS COST			
TASK III: DESIGN (CONTINUED)													
D	ANALYSIS AND DESIGN												
1	Project Manager / Senior Engineer	HR	44	\$190.00	\$8,360.00		\$0.00		\$0.00	0.0	\$0.00		
2	Geotechnical Engineer	HR	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Planning / Technical Specialist	HR	10	\$135.00	\$1,350.00		\$0.00		\$0.00	0.0	\$0.00		
4	Staff Engineer	HR	4	\$150.00	\$600.00		\$0.00		\$0.00	0.0	\$0.00		
5	CADD Technician	HR	60	\$110.00	\$6,600.00		\$0.00		\$0.00	0.0	\$0.00		
E	PREPARATION OF PLANS, SPECIFICATIONS AND ENGINEERS ESTIMATE												
1	Project Manager / Senior Engineer	HR	48	\$175.00	\$8,400.00		\$0.00		\$0.00	0.0	\$0.00		
2	Geotechnical Engineer	HR	0	\$155.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Planning / Technical Specialist	HR	18	\$135.00	\$2,430.00		\$0.00		\$0.00	0.0	\$0.00		
4	Staff Engineer	HR	0	\$110.00	\$0.00		\$0.00		\$0.00	0.0	\$0.00		
5	CADD Technician	HR	60	\$110.00	\$6,600.00		\$0.00		\$0.00	0.0	\$0.00		
F	PERMITTING												
1	Project Manager / Senior Engineer	HR	30	\$175.00	\$5,250.00		\$0.00		\$0.00	0.0	\$0.00		
2	Engineer / Environmental Scientist	HR	8	\$150.00	\$1,200.00		\$0.00		\$0.00	0.0	\$0.00		
3	CADD Technician	HR	20	\$110.00	\$2,200.00		\$0.00		\$0.00	0.0	\$0.00		
4	Mileage	Mile	3000	\$0.67	\$2,010.00		\$0.00		\$0.00	0.0	\$0.00		
5	Per Diem	Day	6	\$59.00	\$354.00		\$0.00		\$0.00	0.0	\$0.00		
G	PRE-BID CONFERENCE												
1	Project Manager / Senior Engineer	HR	6	\$190.00	\$1,140.00		\$0.00		\$0.00		\$0.00		
2	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
3	Per Diem	Day	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
H	PRE-CONSTRUCTION CONFERENCE												
1	Project Manager / Senior Engineer	HR	4	\$190.00	\$760.00		\$0.00		\$0.00		\$0.00		
2	Construction Inspector	HR	4	\$125.00	\$500.00		\$0.00		\$0.00	0.0	\$0.00		
3	Mileage	Mile	0		\$0.00		\$0.00		\$0.00	0.0	\$0.00		
					SUBTOTAL PAGE 5 COST	\$47,754.00	SUBTOTAL PAGE 5 PREVIOUS	\$0.00	SUBTOTAL PAGE 5 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 5 TO DATE	\$0.00	

CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT

Page 6 of 6 Pages

Project Name:	Professional Svcs - Buffalo Creek Complex
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SCHEDULE PER CONTRACT

TOTAL BILLED TO DATE

[illegible]

SUBTOTAL PAGE 6 COST	\$66,902.00	SUBTOTAL PAGE 6 PREVIOUS	\$0.00	SUBTOTAL PAGE 6 THIS APPLICATION	\$0.00	SUBTOTAL PAGE 6 TO DATE	\$0.00
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PROJECT TOTAL COST	\$179,399.50	PROJECT TOTAL PREVIOUS	\$0.00	PROJECT TOTAL THIS APPLICATION	\$0.00	PROJECT TOTAL TO DATE	\$0.00
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION / OFFICE OF ABANDONED MINE LANDS & RECLAMATION											
CONTINUATION SHEET OF APPLICATION AND CERTIFICATE FOR PAYMENT											
Purchase Order No.: 0						Application No.: Buffalo Creek Complex St			Page X of X Pages		
Contract Name: 2023 AML Contract S3						THE GRAND TOTALS HERE COULD BE MADE A SEPARATE 'SHEET' SO TO SUM ALL PROJECT TOTALS					
Commodity Line: N/A						EACH PROJECT COULD/SHOULD BE ON A SEPARATE 'SHEET', AND PAGE NUMBERS CORRECTED AS NEEDED					
Project Name: N/A						WORK COMPLETED					
SCHEDULE PER CONTRACT						PREVIOUS	PREVIOUS BILLED	THIS APPLICATION	AMOUNT DUE THIS APPLICATION	TOTAL BILLED TO DATE	
TASK	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT BID PRICE	UNIT BID PRICE	UNITS	COST	UNITS	COST	UNITS	COST

AML-7 (Revised 7/5/2023)

CONTRACT NAME: . Contract S3

GRAND TOTAL COST	\$179,399.50	GRAND TOTAL PREVIOUS	\$0.00	GRAND TOTAL THIS APPLICATION	\$0.00	GRAND TOTAL TO DATE	\$0.00
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CHANGE ORDER SUMMARY

Change Order	Approved Date	Additions \$+	Deductions \$-	Generalized Justification for or Description of Change Order
1 (NTP)	12/1/2023			
2	1/1/2024			Values shown for example purposes only!!
x	x			Close Out example
TOTAL		\$0.00	\$0.00	
NET		\$0.00		