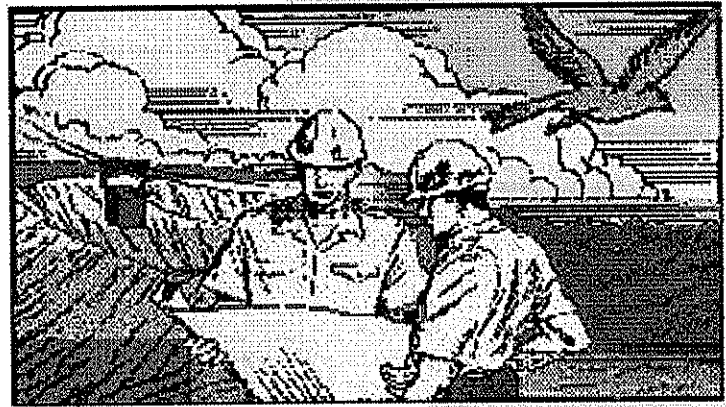
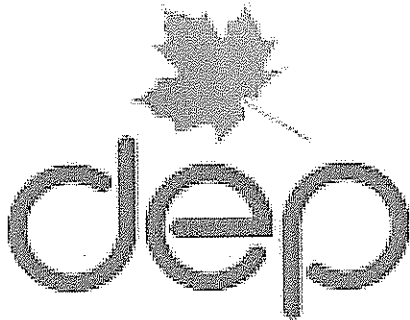


**West Virginia Department
of Environmental Protection**

ORIGINAL

Expression of Interest: DEP15065

Engineering Design & Construction Monitoring Services
for the Birds Creek Portals Design Project
Preston County, WV



Prepared For:

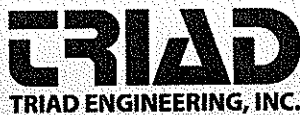
WV Department of Environmental Protection
Office of Abandoned Mine Lands &
Reclamation

Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, WV 25305-0130

Submitted By:

Triad Engineering, Inc.
219 Hartman Run Road
Morgantown, WV 26505
Ph: 304.296.2562
Fx: 304.296.8739

Opening Date: June 24, 2010, 1:30PM



RECEIVED

2010 JUN 24 A 8:00

PURCHASING DIVISION
STATE OF WV



TRIAD ENGINEERING, INC.

MD | PA | VA | WV

TRIAD Listens, Designs & Delivers

June 24, 2010

Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

ATTN: Mr. Chuck Bowman, Buyer

**RE: Expression of Interest – Engineering Design and Construction Monitoring Services
DEP15065 – Birds Creek Portals Design Project
Triad Proposal #01-10-8164**

Mr. Bowman and the WVDEP,

Triad Engineering, Incorporated (TRIAD) is pleased to submit the attached "Consultant Confidential Qualification Questionnaire (CCQQ)" and "Related Project Experience Matrix (RPEM)" in response to the Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation's (DEP - AML&R's) need for engineering design, construction monitoring and other support services for the Birds Creek Portals Design project. TRIAD's primary point of contact for this project will be Mr. Harold W. "Chip" Chambers. Mr. Chambers can be reached at (304) 296-2562 or cchambers@triadeng.com.

TRIAD is extremely proud of our performance under past contracts, including contracts we have held with the DEP. As of this date, over 400 AML&R projects have been undertaken by TRIAD. The vast majority of these projects have been successfully completed on time and within the proposed estimated cost.

As always, TRIAD will commit the necessary resources to meet the needs of this project. TRIAD continues to maintain and invest in staff and equipment necessary to provide comprehensive services for the successful completion of this project. We firmly believe the in-house resources available provide the State with the most favorable terms from a technical and cost standpoint. Our proximity to the project location is also beneficial, as our personnel can be at the project site in Preston County within one hour. We highly value our working relationship with AML&R personnel, and will continue to strive for excellence in all we do.

We appreciate the opportunity to offer our services to you and hope we will be able to work together on this important project. Please do not hesitate to contact us should you have any questions regarding this submission or our firm's services.

Sincerely,
Triad Engineering, Inc.

Lydia M. Work, LRS
Branch Manager

Harold W. "Chip" Chambers
Project Manager / Surveying Manager

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III. CORPORATE SPECIALIZED EXPERIENCE

IV. MANAGEMENT PLAN, LOCATION OF FACILITIES & WORK APPROACH

PAST ABANDONED MINE LAND PROJECTS, 1992 - Present

TRIAD
TRIAD ENGINEERING, INC.



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

Request for Quotation

RFQ NUMBER
DEP15065

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
CHUCK BOWMAN
304-558-2157

RFQ COPY
 TYPE NAME/ADDRESS HERE

Triad Engineering, Inc.
 219 Hartman Run Road
 Morgantown, WV 26505

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF AML&R
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

| DATE PRINTED | TERMS OF SALE | SHIP VIA | F.O.B. | FREIGHT TERMS |
|--------------|---------------|----------|--------|---------------|
| 05/20/2010 | | | | |

BID OPENING DATE: **06/24/2010** BID OPENING TIME **01:30PM**

| LINE | QUANTITY | UOP | CAT NO | ITEM NUMBER | UNIT PRICE | AMOUNT |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|--------|-------------|------------|--------|
| 0001 | 1 | JB | | 906-29 | | |
| <p>BIRDS CREEK PORTALS DESIGN</p> <p>EXPRESSION OF INTEREST</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE BIRDS CREEK PORTALS PROJECT IN PRESTON COUNTY, WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THIS CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> | | | | | | |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *[Signature]* TELEPHONE **(304)296-2562** DATE **06/23/2010**

TITLE **Branch Manager** FEIN **550592364** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she 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/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors 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, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will 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 the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

Revised July 28, 2009

EXPRESSION OF INTEREST

Birds Creek Portals
Requisition DEP15065

Part 1 GENERAL INFORMATION

1.1 Purpose:

The Acquisition and Contract Administration Section of the Purchasing Division "State" is soliciting Expression(s) of Interest (EOI) for the West Virginia Department of Environmental Protection (WVDEP), Office of Abandoned Mine Lands & Reclamation (AML), from qualified firms to provide architectural/engineering services as defined in section two (2) and three (3) and construction monitoring services during the construction phase of the project as defined by the **Scope of Work**. Construction Inspection by the firm will be at the option of WVDEP/AML.

1.2 Project:

The mission or purpose of the project described in sections 2 & 3 is to provide design services for the following:

Birds Creek Portals:

Construct/upgrade access road to the site.

Excavate/wet seal at least thirty-five deep mine portals. Install bat gates in at least four (4) open portals.

Construct drainage control channels to collect and convey mine drainage and/or surface runoff safely off-site.

Utilize existing on-site spoil to eliminate the highwall and regrade to approximate original contour

Regrade and cover exposed refuse with soil material and revegetate.

Condition and revegetate all disturbed areas.

1.3 Format:

All responses should be submitted in a loose-leaf, three ring binder. The response should be presented in concise format which defines the corporation history and the experience, qualifications, and performance data of the firm's staff as requested by the AML Consultant Qualification Questionnaire (CQQ),

Attachment "B" and the AML and Related Project Experience Matrix (RPEM). Attachment "C".

Electronic copies of the above referenced documents Attachment "B" and Attachment "C" are available online for registered vendors at:
<http://www.state.wv.us/admin/purchase/newbul.htm>

1.4 Inquiries:

Additional information inquiries regarding this EOI must be submitted in writing to the State Buyer with the exception of questions regarding proposal submission, which may be oral. The deadline for written inquiries is identified in the Schedule of Events, Section 1.16. All inquiries of specification clarification must be addressed to:

Chuck Bowman, Buyer Supervisor
Purchasing Division
P.O. Box 50130
Charleston, WV 25305-0130
Fax: (304) 558-4115
Email: charles.a.bowmanjr@wv.gov

The firm, or anyone on the firm's behalf, is not permitted to make any contact whatsoever with any member of the evaluation committee. Violation may result in rejection of the EOI. The State Buyer named above is the sole contact for any and all inquiries after this EOI has been released.

1.5 Vendor Registration:

Firms participating in this process should complete and file a ***Vendor Registration and Disclosure Statement*** (Form WV-1) and remit the registration fee. Firm is not required to be a registered vendor in order to submit an EOI, but the **successful firm must** register and pay the fee prior to the issuance of an actual contract.

1.6 Oral Statements and Commitments:

Firm must clearly understand that any verbal representations made or assumed to be made during any oral discussions held between firm's representatives and any State personnel are **not** binding. Only the information issued in writing and added to the Expression of Interest specifications file by an official written addendum is binding.

1.7 Economy of Preparation:

EOI's should be prepared simply and economically, providing a straightforward, concise description of firm's abilities to satisfy the requirements of the EOI.

Emphasis should be placed on completeness and clarity of content. Example projects referred to in a firm's EOI's submittal should address projects that are similar in scope to that of the EOI. **Firms must complete the CQQ and RPEM as included in Section 4.2 of this EOI. (Proposals must be no more than 100 pages).**

1.8 **Labeling of the Sections:** The response sections should be labeled for ease of evaluation.

1.9 **Submission:**

1.9.1 State law requires that the original expression shall be submitted to the Purchasing Division. All copies to the Purchasing Division must be submitted **prior** to the date and time stipulated as the opening date. All expressions will be date and time stamped on the Purchasing Division official time clock to verify time and date of receipt.

1.9.2 Firms mailing expressions should allow sufficient time for mail delivery to ensure timely arrival. The Purchasing Division **CANNOT** waive or excuse late receipt of an expression which is delayed and late for any reason according West Virginia State Code §5A-3-11. Any EOI received after the bid opening time and date will be immediately disqualified in accordance with State law and the Legislative Rule 148-CSR-1.

Submit:

One original plus one convenience copy and one copy on CD to:

Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

The outside of the envelope or package(s) should be clearly marked:

Buyer: CB-23
Req #: DEP15065
Opening Date: 06/24/2010
Opening Time: 1:30 pm

1.10 Rejection of Expressions:

The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. However, the State reserves the right to accept or reject any or all expressions and to reserve the right to withdraw this Expression of Interest at any time and for any reason. Submission of, or receipt by the State of Expressions confers no rights upon the firm nor obligates the State in any manner.

1.11 Incurring Costs:

The State and any of its employees or officers shall not be held liable for any expenses incurred by any firm responding to this EOI for expenses to prepare, deliver, or to attend the short-list interviews.

1.12 Addenda:

If it becomes necessary to revise any part of this EOI, an official written addendum will be issued by the State to all potential firms of record.

1.13 Independent Price Determination:

A contract will not be considered for award if the negotiated price was not arrived at independently without collusion, consultation, communication, or agreement as to any matter relating to prices with any competitor.

1.14 Price Quotations: No "price" or "fee" quotation is requested or permitted in the response.**1.15 Public Record:****1.15.1 *Submissions are Public Record.***

All documents submitted to the State Purchasing Division related to purchase orders/contracts are considered public records. All EOI's submitted by firms shall become public information and are available for inspection during normal official business hours in the Purchasing Division Records and Distribution center after the expressions have been opened.

1.15.2 *Written Release of Information.*

All public information may be released with or without a Freedom of Information request, however, only a written request will be acted upon with duplication fees paid in advance. Duplication fees shall apply to all requests for copies of any document. Currently the fees are \$0.50/page, or a minimum of \$10.00 per request, whichever is greater.

1.15.3 *Risk of Disclosure.*

The only exemptions to disclosure of information are listed in West Virginia Code §29B-1-4. Primarily, only trade secrets as submitted by a firm are the only exemption to public disclosure. The submission of any information to the State by a firm puts the risk of disclosure on the firm. The submission of any information to the State by a vendor puts the risk of disclosure on the vendor. The State does not guarantee non-disclosure of any information to the public.

1.16 **Schedule of Events:**

Release of EOI.....05/20/2010
EOI Opening Date.....06/24/2010

1.17 **Mandatory Pre-bid Conference:** NA

1.18 **Bond Requirements:** N/A

1.19 **Purchasing Affidavit:**

West Virginia State Code §5A-3-10a (3) (d) requires that all firms submit an Affidavit regarding any debt owed to the State and licensing and confidentiality certifications. The Affidavit **must** be signed and submitted prior to award. It is preferred that the Affidavit be submitted with the EOI.

PART 2 OPERATING ENVIRONMENT

2.1 **Location:**

Directions to Birds Creek Portals:

Site #1: From US Route 92 north of Birds Creek Road turn right onto the Irish Ridge Road (CR 58). Travel about 100 feet then turn right. Continue for 0.2 mile then turn left and follow an old haul road to the first portion of the site. Continue along the county road for an additional 0.8 mile to the reminder of Site 1.

Site #2: From the intersection of US Route 92 and the Birds Creek Road travel east on Birds Creek Road for 1.0 mile then turn right onto and old haul road. Park and walk to a total of five portals located to the east, south and west.

Site #3: From US Route 92 north of Birds Creek Road intersection travel south along Rt. 92 for 0.2 mile then cross Birds Creek. From here the site extends south for about 1,800 LF.

Site 4: Site 4 is located directly across from the northern end of Site 3 on the opposite side of State Route 92, about 300 feet from the intersection of Birds Creek Road and the highway.

Site 5: Has been deleted.

Site 6: From US Route 92 north of the Birds Creek Road intersection travel south along Rt. 92 for 0.7 mile then turn left. Proceed 0.4 mile to the drainage source on the right side of the road. Park and walk along the creek channel for about 500 feet to the mine.

Location Map is attached (Attachment A1).

2.2 **Background:**

Firms are to be licensed Architectural/Engineering Firms (A/E) and should be familiar with, and have a successful track record of design of similar projects. The anticipated contract will be for "full-service" A/E design. Aspects of the design are to include, but not be limited to, Civil, Structural, Geological and Hydrological.

*The successful A/E will be responsible for **Design** of the following:*

Site #1: Located just off of the county road are 11 collapsed portals and one partially open deep mine with a 2' high x 4' wide opening. Nearly all of the portals have some amount of discharge with flows ranging from 1 to 20 gpm. At the northern end of the site is 1,800 LF of highwall, averaging 20 feet in height, and a small (1/3 acre) partially vegetated refuse pile. Also on site was a small amount of mining debris and rusted metal. The open portal is located within 100 feet of the county road and about 300 feet from an occupied residence making this site potentially hazardous to area residents

Site #2: This site consists of five (5) collapsed deep mine portals with acid mine drainage discharges ranging in flow from an estimated 1 or 2 gpm to as much as 25 gpm. Most of this drainage flows onto the Birds Creek Road, where during winter months, freezes onto the pavement's surface causing hazardous driving conditions. Also on site were at least six old, abandoned vehicles and household trash indicating past evidence of visitation.

Site #3: This site includes twelve (12) portals with most discharging acid mine drainage into Birds Creek. Ten of the portals are completely collapsed, one has a small opening about 1 foot in diameter, and another has a 3' x 10' wide opening that extends back about 15 feet. Flows range from small seeps < 1 gpm to as much as an estimated 20 gpm. Nine of these portals are located along an old haul road that parallels Rt. 92 for about 1,600 feet. Field tests of the drainage

indicated pHs of 2.9 to 4 and Fe > 10 mg/l. This site also includes three (3) separate, partially vegetated refuse piles ranging in size from 1/8 acre to about 2 acres. There are occupied residences located within 300 feet of the Problem Area at both the northern and southern end of the site.

Site #4: This site includes a total of nine (9) deep mine portals located next to State Route 92 near the Birds Creek Road exit. Of these portals, eight (8) were completely collapsed with two (2) discharging acid mine drainage with flows estimated at 1 to 10 gpm. One of these portals also had a partially collapsed block/metal/concrete canopy at its entrance. The final portal was only partially collapsed and had a small opening that extended into the mine for an unknown distance. The opening measured approximately 1' high x 6' in width and was just large enough for a small adult or child to enter; this portal was located within 75' of the state highway. Field tests of the mine discharge indicated the pH was around 3.5 and iron was greater than 10 mg/L.

Site #5: Has been deleted.

Site #6: This site includes one (1) completely collapsed portal discharging an estimated 50 gpm on this date. Field tests indicated a pH of 4.0 and Fe > 10 mg/l.

Preliminary design documents will be due 90 days from the issuance of the Purchase Order.

PART 3 PROCUREMENT SPECIFICATIONS

3.1 General Requirements:

Firm must submit a completed CQQ (Attachment "B") and RPEM (Attachment "C") as per Section 4.2

3.2 Project Description:

Scope of Work – Birds Creek Portals:

Construct/upgrade access road to the site.

Excavate/wet seal at least thirty-five deep mine portals Install bat gates in at least four (4) open portals.

Construct drainage control channels to collect and convey mine drainage and/or surface runoff safely off-site.

Utilize existing on-site spoil to eliminate the highwall and regrade to approximate original contour

Regrade and cover exposed refuse with soil material and revegetate.

Condition and revegetate all disturbed areas.

3.3 **Special Terms and Conditions:**

3.3.1 *Bid and Performance Bonds:* N/A

3.3.2 *Insurance Requirements:* \$1,000,000 Professional Liability per Occurrence
 \$1,000,000 Aggregate
 \$1,000,000 Automobile Liability
 \$1,000,000 Professional Liability
 Workers Compensation Certificate Upon Award
 West Virginia Statutory requirements including
 West Virginia Code §23-4-2 (Mandolidis)
 DEP15065 must be listed on Insurance Certificates

3.4 **General Terms and Conditions:**

By signing and submitting the EOI, the successful firm agrees to be bound by all the terms contained in Section Three (3) of this EOI.

3.4.1 *Conflict of Interest:*

Firm affirms that it, its officers or members or employees presently have no interest and shall not acquire any interest, direct or indirect which would conflict or compromise in any manner or degree with the performance or its services hereunder. The firm further covenants that in the performance of the contract, the firm shall periodically inquire of its officers, members and employees concerning such interests. Any such interests discovered shall be promptly presented in detail to the Agency.

3.4.2 *Prohibition Against Gratuities:*

Firm warrants that it has not employed any company or person other than a bona fide employee working solely for the firm or a company regularly employed as its marketing agent to solicit or secure the contract and that it has not paid or agreed to pay any company or person any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award of the contract. For breach or violation of this warranty, the State shall have the right to annul this contract without liability at its discretion, and/or to pursue any other remedies available under this contract or by law.

3.4.3 *Certifications Related to Lobbying:*

Firm certifies that no federal appropriated funds have been paid or will be paid,

by or on behalf of the company or an employee thereof, to any person for purposes of influencing or attempting to influence an officer or employee of any Federal entity, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee or any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the firm shall complete and submit a disclosure form to report the lobbying.

Firm agrees that this language of certification shall be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this contract was made and entered into.

3.4.4 Vendor Relationship:

The relationship of the firm to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this contract. The firm as an independent contractor is solely liable for the acts and omissions of its employees and agents.

Firm shall be responsible for selecting, supervising and compensating all individuals employed pursuant to the terms of this EOI and resulting contract. Neither the firm nor any employees or contractors of the firm shall be deemed to be employees of the State for any purposes whatsoever.

The Firm 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, and licensing fees, etc. and the filing of all necessary documents, forms and returns pertinent to all of the foregoing.

The Firm shall hold harmless the State, and shall provide the State and Agency with a defense against all claims including but not limited to the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns.

The firm shall not assign, convey, transfer or delegate any of its responsibilities and obligations under this contract to any person, corporation, partnership, association or entity without expressed written consent of the Agency.

3.4.5 *Indemnification:*

The firm 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 firm, 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; (3) Any failure of the firm, its officers, employees or subcontractors to observe State and Federal laws, including but not limited to labor and wage laws.

3.4.6 *Contract Provisions:*

After the most qualified firm is identified, and fee negotiations are concluded, a formal contract document will be executed between the State and the firm. The order of precedence is the contract, the EOI and the firm's response to the EOI.

3.4.7 *Governing Law:*

This contract shall be governed by the laws of the State of West Virginia. The firm further agrees to comply with the Civil Rights Act of 1964 and all other applicable laws (Federal, State or Local Government) regulations.

3.4.8 *Compliance with Laws and Regulations:*

The firm shall procure all necessary permits and licenses to comply with all applicable laws, Federal, State or municipal, along with all regulations, and ordinances of any regulating body.

The firm shall pay any applicable sales, use, or personal property taxes arising out of this contract and the transactions contemplated thereby. Any other taxes levied upon this contract, the transaction, or the equipment, or services delivered pursuant here to shall be borne by the contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this contract.

3.4.9 Subcontracts/Joint Ventures:

The State will consider the firm to be the sole point of contact with regard to all contractual matters. The firm may, with the prior written consent of the State, enter into written subcontracts for performance of work under this contract; however, the firm is totally responsible for payment of all subcontractors.

3.4.10 Term of Contract:

This contract will be effective (date set upon award) and shall extend until the scope of work is complete or for one (1) consecutive twelve (12) month period. The contract may be renewed upon mutual consent for two (2) consecutive years one (1) year periods or until such reasonable time as may be necessary to obtain a new contract or to complete work.

3.4.11 Non-Appropriation of Funds:

If the Agency is not allotted funds in any succeeding fiscal year for the continued use of the service covered by this contract by the West Virginia Legislature, the Agency may terminate the contract at the end of the affected current fiscal period without further charge or penalty. The Agency shall give the firm written notice of such non-allocation of funds as soon as possible after the Agency receives notice. No penalty shall accrue to the Agency in the event this provision is exercised.

3.4.12 Contract Termination:

The State may terminate any contract resulting from this EOI immediately at any time the firm fails to carry out its responsibilities or to make substantial progress under the terms of this EOI and resulting contract. The State shall provide the firm with advance notice of performance conditions, which are endangering the contract's continuation. If after such notice the firm fails to remedy the conditions contained in the notice, within the time contained in the notice, the State shall issue the firm an order to cease and desist all work immediately.

The State shall be obligated only for services rendered and accepted prior to the date of the notice of termination. The contract may also be terminated upon mutual agreement of the parties with thirty (30) days prior notice.

3.4.13 Changes:

If changes to the original contract become necessary, a formal contract change order will be required. Prior to any work being performed, the change must be negotiated and approved by the State, the Agency and the firm. An approved contract change order is defined as one approved by the Purchasing Division and approved as to form by the West Virginia Attorney General's Office prior to the effective date of such amendment. **NO CHANGE SHALL BE IMPLEMENTED BY THE FIRM UNTIL THE FIRM RECEIVES AN APPROVED WRITTEN CHANGE ORDER.**

3.4.14 Invoices, Progress Payments, & Retainage:

The Firm shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To" pursuant to the terms of the contract. Progress payments may be made at the option of the Agency based on percentage of work completed if so defined in the final contract. Any provision for progress payments must also include language for a minimum 10% retainage until the final deliverable is accepted.

If progress payments are permitted, firm is required to identify points in the work plan at which compensation would be appropriate. Progress reports must be submitted to Agency with the invoice detailing progress completed or any deliverables identified. Payment will be made only upon approval of acceptable progress or deliverables as documented in the firm's report. Invoices may not be submitted more than once monthly and State law forbids payment of invoices prior to receipt of services.

The firm will invoice for completed work on an approved WVDEP form.

3.4.15 Liquidated Damages:

According to West Virginia State Code §5A-3-4(8), firm agrees that liquidated damages shall be imposed at the rate of **N/A** per workday, for failure to provide deliverables at the agreed upon date identified in the final contract. This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue to any other additional remedy to which the State or Agency may have legal cause for action including further damages against the firm.

3.4.16 Record Retention (Access & Confidentiality):

Firm shall comply with all applicable Federal and State of West Virginia rules and regulations, and requirements governing the maintenance of documentation to verify any cost of services or commodities rendered under this contract by the firm. The firm shall maintain such records a minimum of five (5) years and make available all records to Agency personnel at firm's location during normal business hours upon written request by Agency within 10 days after receipt of the request.

Firm shall have access to private and confidential data maintained by Agency to the extent required for firm to carry out the duties and responsibilities defined in this contract. Firm agrees to maintain confidentiality and security of the data made available and shall indemnify and hold harmless the State and Agency against any and all claims brought by any party attributed to actions of breach of confidentiality by the firm, subcontractors, or individuals permitted access by the firm.

PART 4 EVALUATION & AWARD

4.1 Evaluation and Award Process:

- a) Expressions of Interest will be evaluated and awarded in accordance with **§5G-1-3 "Contracts for architectural and engineering services; selection process where total project costs are estimated to cost two hundred fifty thousand dollars or more."**

"In the procurement of architectural and engineering services for projects estimated to cost two hundred and fifty thousand dollars or more the director of purchasing shall encourage such firms engaged in the lawful practice of the profession to submit an expression of interest, which shall include a statement of qualifications, and performance data and may include anticipated concepts and proposed methods of approach to the project. All such jobs shall be announced by public notice published as a Class II legal advertisement in compliance with the provisions of article three [§59-3-1et seq.] A committee comprised of three to five representatives of the agency initiating the request shall evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service. Interviews with each firm selected shall be conducted and the committee shall conduct discussions regarding anticipated concepts and the proposed methods of approach to the assignment. The committee shall then rank in order of preference no less than three professional firms deemed to be the most highly qualified to provide the services required, and shall commence scope of service and price negotiations with the highest qualified professional firm for architectural or engineering services or both. Should the agency be unable to negotiate a satisfactory contract with the professional firm considered to be the most qualified, at a fee determined to be fair and reasonable, price negotiations with the firm of second choice shall commence. Failing accord with the second most qualified professional firm, the committee shall undertake price negotiations with the third most qualified professional firm. Should the agency be unable to negotiate a satisfactory contract with any of the selected professional firms, it shall select additional professional firms in order of their competence and qualifications and it shall continue negotiations in accordance with this section until an agreement is reached."

b) The evaluation criteria and assigned point values are as follows:

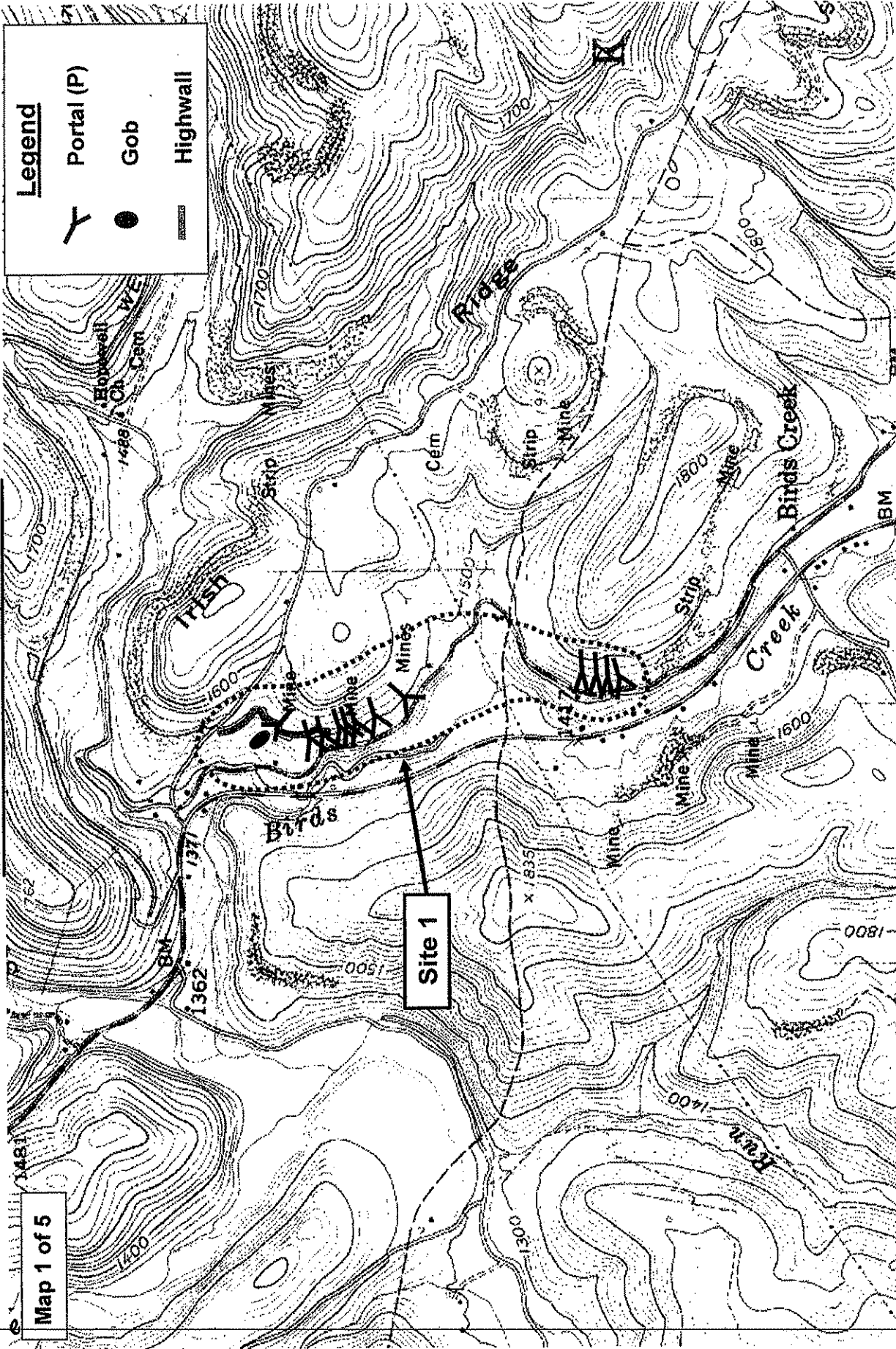
- | | | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| A. | WV Registered Professional Engineers (Civil or Mining) In the Primary Office: | 20 points |
| B. | Reclamation Engineering design experience of the Primary Office's WVRPE as it relates to the specific project problem Areas: | 25 points |
| C. | Available WV-AML Design Teams within the Primary office (A Design team should consist of one Project Engineer (Civil or Mining), one CAD person and availability of other support personnel a required by the particular project): | 20 points |
| D. | The Oral Interview (See Section 4.3 of this EOI): | 35 points |
- 4.2 (a) AML Consultant Qualification Questionnaire (CQQ) must be completed to be eligible (See Attachment "B").
- (b) AML and Related Project Experience Matrix (RPEM) must also be completed to be eligible (See Attachment "C").
- 4.3 Interviews as stated in 4.1 "Evaluation and Award Process" will be conducted with the three firms selected as the most qualified by the WVDEP Selection Committee. The Committee will schedule the interviews.

The format for the interviews will be a 15-30 minute PowerPoint presentation consisting, at a minimum, of the following:

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

**Project Location - Topographic Map
Birds Creek Portals; WV-1083**

Map 1 of 5



Legend

- Portal (P)
- Gob
- Highwall

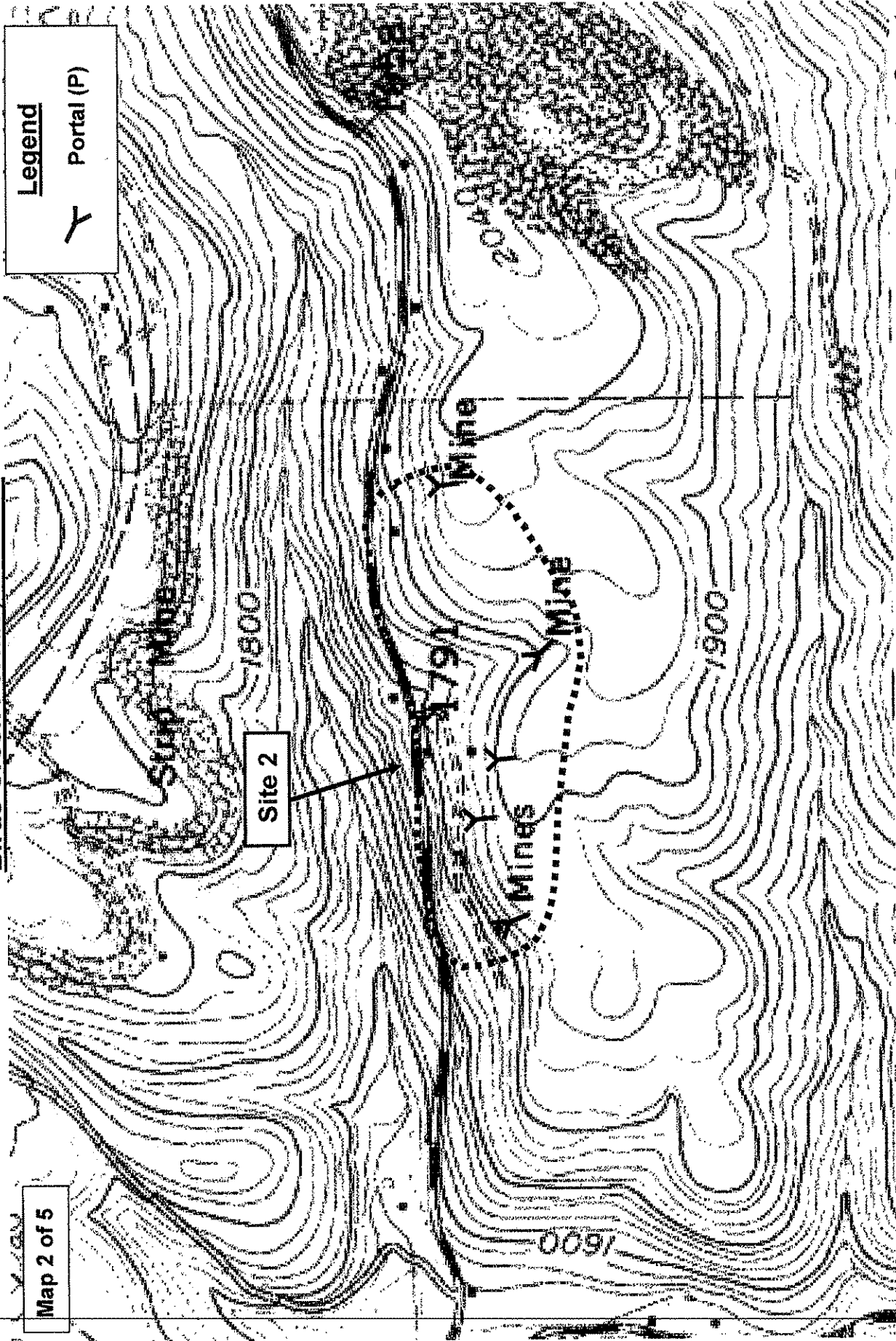
Newburg Quad
Latitude: 39° 25' 44"

Scale: 1 inch = 1,300 Feet

Preston County
Longitude: 79° 48' 20"

Project Location - Topographic Map
Birds Creek Portals: WV-1083

Map 2 of 5

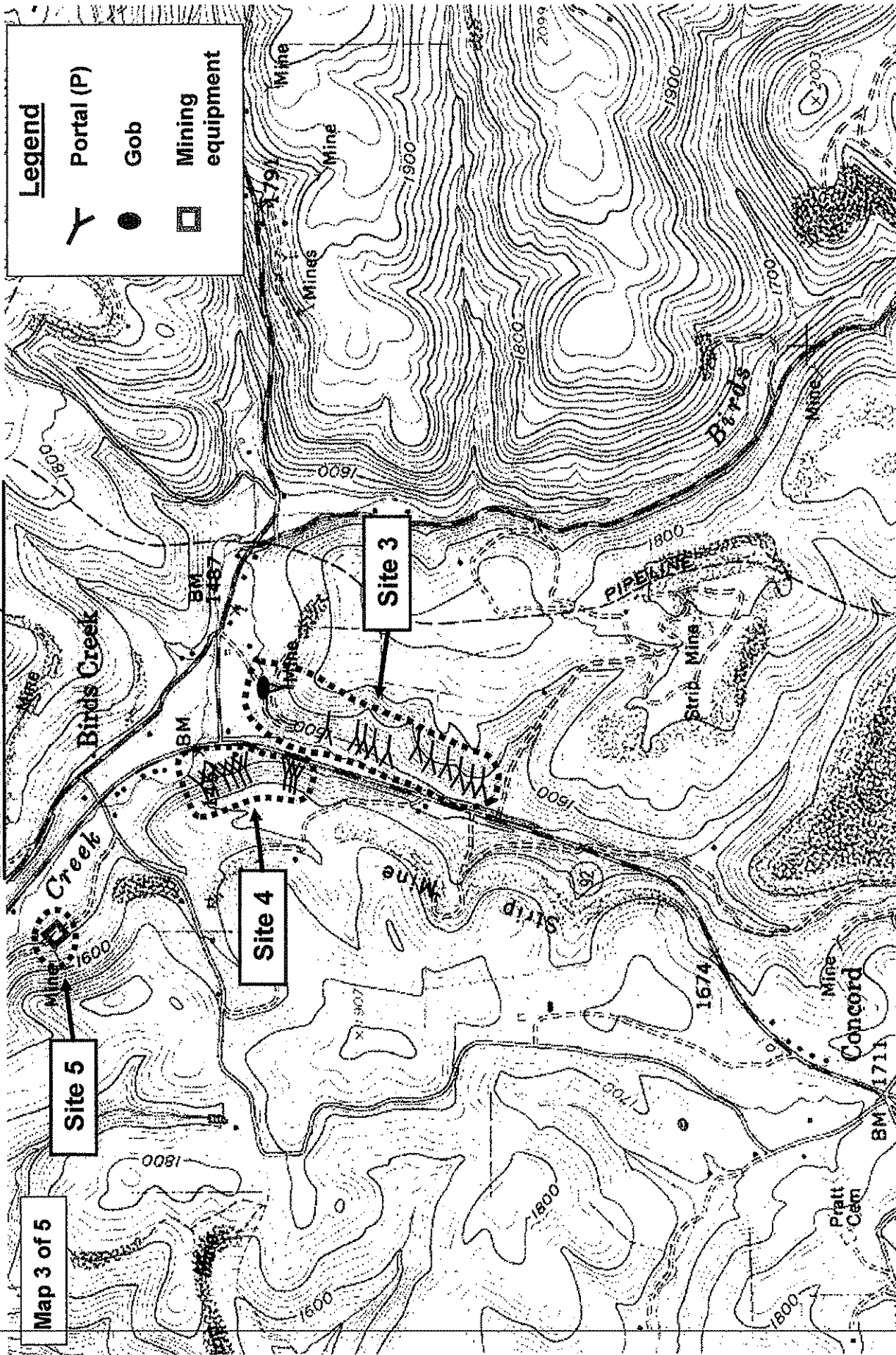


Newburg Quad
Latitude: 39° 25' 44"

Scale: 1 inch = 675 Feet

Preston County
Longitude: 79° 48' 20"

Project Location - Topographic Map
Birds Creek Portals; WV-1083



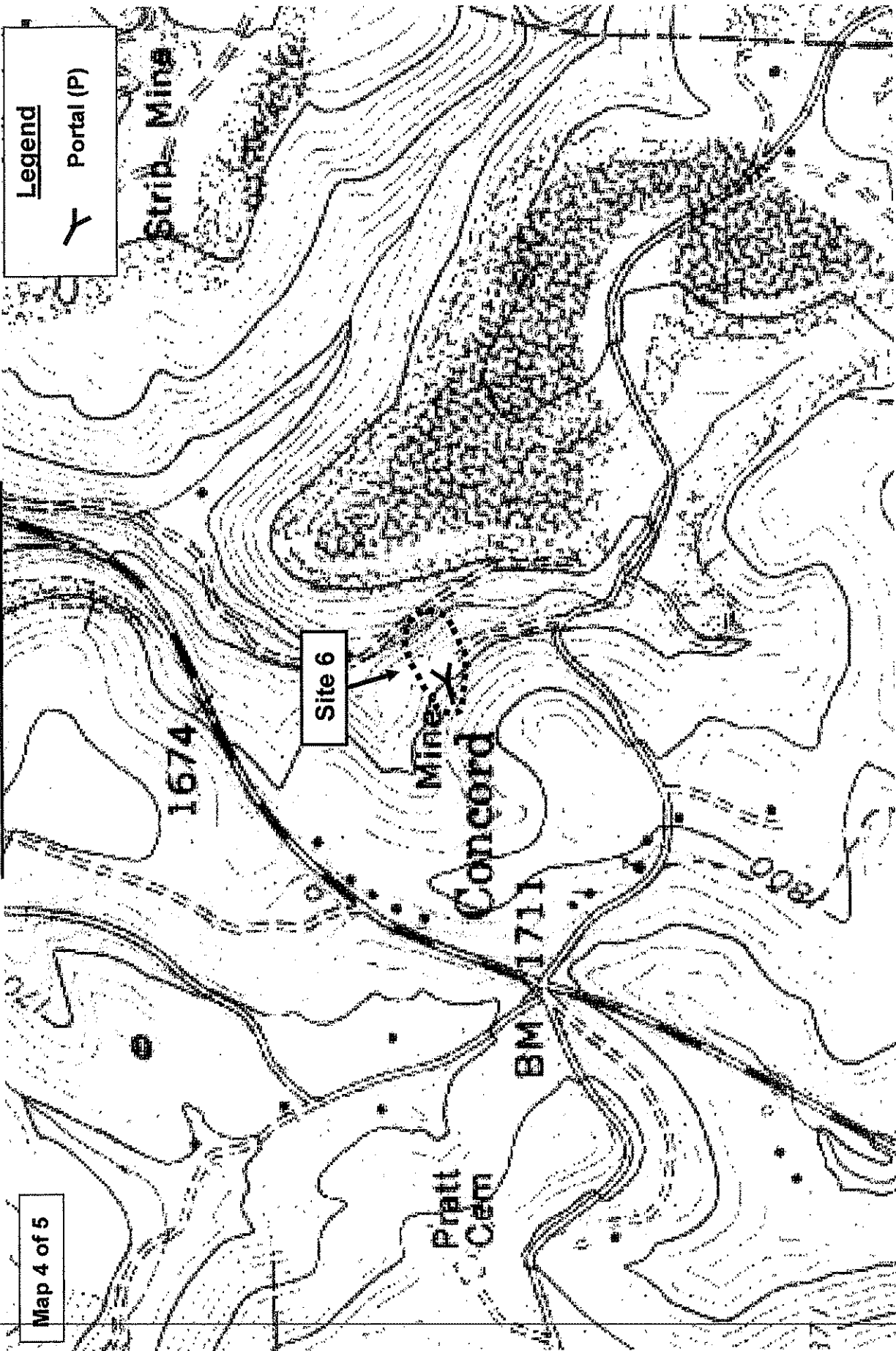
Preston County
Longitude: 79° 48' 20"

Scale: 1 inch = 1,300 Feet

Newburg Quad
Latitude: 39° 25' 44"

Project Location -- Topographic Map
Birds Creek Portals; WV-1083

Map 4 of 5

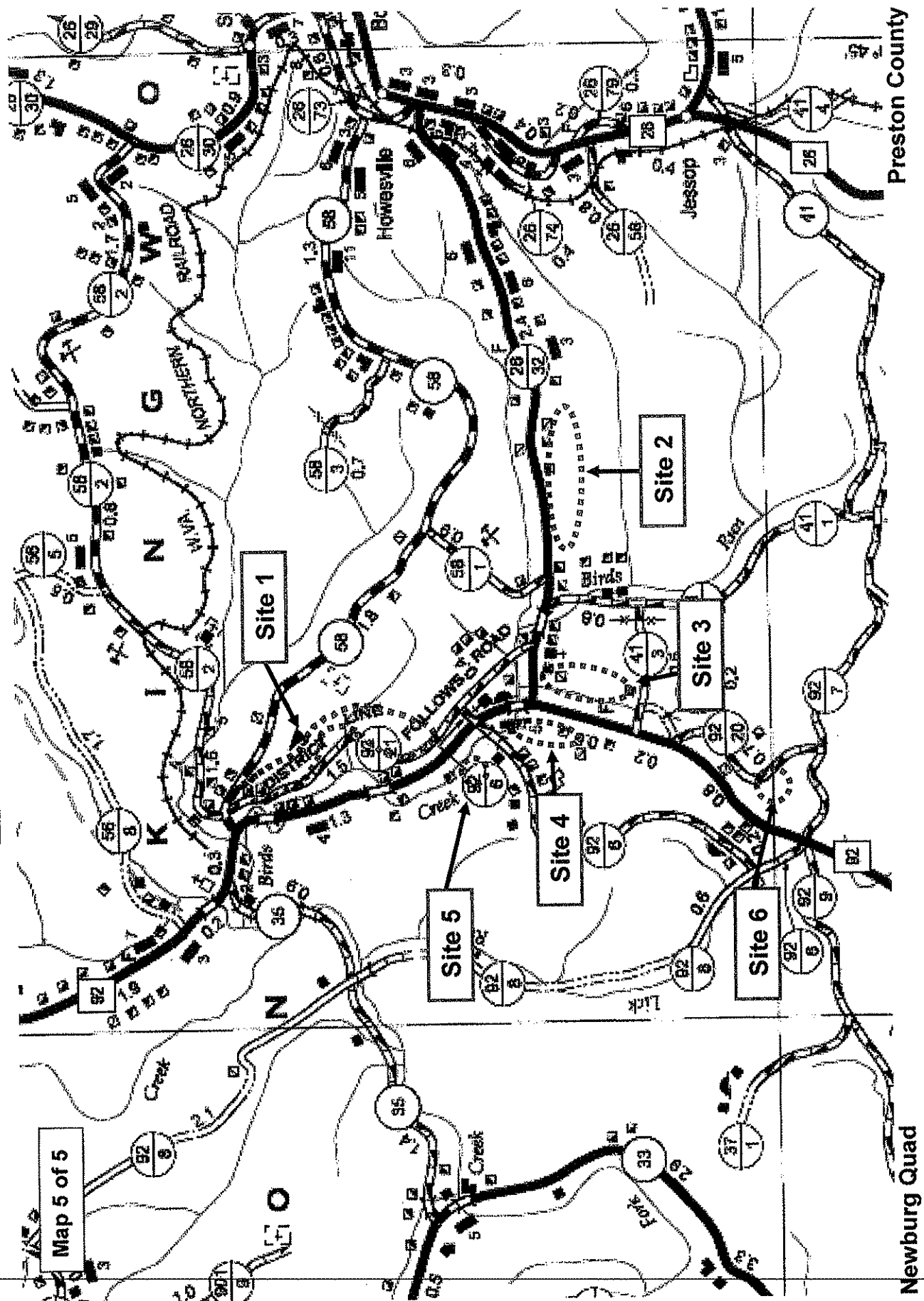


Preston County
Longitude: 79° 48' 20"

Scale: 1 inch = 675 Feet

Newburg Quad
Latitude: 39° 25' 44"

Project Location - C...nty Highway Map
Birds Creek Portals: WV-1083



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

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| PROJECT NAME DEP15065 - Birds Creek Portals Design Project | | DATE (DAY, MONTH, YEAR) 23 June 2010 | FEIN 550592364 |
| 1. FIRM NAME TRIAD ENGINEERING, INC. | | 2. HOME OFFICE BUSINESS ADDRESS 219 Hartman Run Road Morgantown, WV 26505 | 3. FORMER FIRM NAME N/A |
| 4. HOME OFFICE TELEPHONE (304) 296-2562 | 5. ESTABLISHED (YEAR) 1975 | 6. TYPE OWNERSHIP Individual Partnership Joint-Venture Corporation | 6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO X |
| 6. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 219 Hartman Run Road, Morgantown, WV 26505 / (304)296-2562 / Lydia Work, L.R.S. - Branch Manager / 15 4980 Teays Valley Road, Scott Depot, WV 25560 / (304) 755-0721 / John Meeks, P.G., L.R.S. - Branch Manager / 20 | | | |
| NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Randy L. Moulton, P.E., President & CEO (540) 667-9300 William M. Gardner, Vice President (304) 296-2562 | | | |
| 9. PERSONNEL BY DISCIPLINE | | | |
| 23 ADMINISTRATIVE | — ECOLOGISTS | 3 LANDSCAPE ARCHITECTS | STRUCTURAL ENGINEERS |
| — ARCHITECTS | — ECONOMISTS | — MECHANICAL ENGINEERS | 32 SURVEYORS |
| 17 BIOLOGIST | 16 ELECTRICAL ENGINEERS | 2 MINING ENGINEERS | 17 DRILLERS & HELPERS |
| CADD OPERATORS | 3 ENVIRONMENTALISTS | — PHOTOGRAMMETRISTS | 10 LABORATORY TECHS. |
| CHEMICAL ENGINEERS | 3 ESTIMATORS | 2 PLANNERS: URBAN/REGIONAL | 7 LIC. REMEDIATION SPECS. |
| 14 CIVIL ENGINEERS | 7 GEOLOGISTS | 1 SANITARY ENGINEERS | 217 TOTAL PERSONNEL |
| 45 CONSTRUCTION | — HISTORIANS | 17 SOILS ENGINEERS | |
| INSPECTORS | 1 HYDROLOGISTS | — SPECIFICATION WRITERS | |
| DESIGNERS | | | |
| DRAFTSMEN | | | |
| TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 2 (Mgtm.) / 9 (Sc. Depot) / 22 (Triad) *RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work. | | | |
| 10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA | | | |

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

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <p>NAME AND ADDRESS: Keddal Aerial Mapping 1121 Boyce Road, Suite 3100 Pittsburgh, PA 15241</p> | <p>SPECIALTY: Aerial Mapping Services including aerial photography / remote sensing, surveying, digital photogrammetry, digital imaging, cadastral mapping, data conversion, and geographic information systems.</p> <p>SPECIALTY:</p> | <p>WORKED WITH BEFORE ___ X ___ Yes ___ No</p> |
| <p>NAME AND ADDRESS:</p> | <p>SPECIALTY:</p> | <p>WORKED WITH BEFORE ___ Yes ___ No</p> |
| <p>NAME AND ADDRESS:</p> | <p>SPECIALTY:</p> | <p>WORKED WITH BEFORE ___ Yes ___ No</p> |
| <p>NAME AND ADDRESS:</p> | <p>SPECIALTY:</p> | <p>WORKED WITH BEFORE ___ Yes ___ No</p> |
| <p>NAME AND ADDRESS:</p> | <p>SPECIALTY:</p> | <p>WORKED WITH BEFORE ___ Yes ___ No</p> |
| <p>NAME AND ADDRESS:</p> | <p>SPECIALTY:</p> | <p>WORKED WITH BEFORE ___ Yes ___ No</p> |
| <p>NAME AND ADDRESS:</p> | <p>SPECIALTY:</p> | <p>WORKED WITH BEFORE ___ Yes ___ No</p> |
| <p>NAME AND ADDRESS:</p> | <p>SPECIALTY:</p> | <p>WORKED WITH BEFORE ___ Yes ___ No</p> |

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

YES Description and Number of Projects: Triad has performed this work on hundreds of projects for the WVDEP/AML. In addition, we have performed numerous similar projects for other governmental agencies and private entities since our inception in 1975.
NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: Triad has completed thousands of projects involving soil analysis throughout our years of service, and our geotechnical materials testing labs are certified by the WVDOT/DOH.
NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: Triad has completed hundreds of projects in the areas of hydrology and hydraulics since our inception, with customers including the WVDEP, U.S. Army Corps of Engineers, and the WVDNR.
NO

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

YES Description and Number of Projects: Triad typically subcontracts the aerial photography. However, Triad lays out the targets in the field and conducts the survey for establishment of horizontal and vertical control used to develop the final contour mapping. It is estimated that we have completed several hundred of these types of mapping projects since the inception of the firm in 1975.

NO

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

YES Description and Number of Projects: Triad has completed a total of 10 waterline design projects including: Norton Harding Jimtown, Alkol Phase 1 and 2, 14 Mile, 10 Mile, 9 Mile, 6 Mile, Gatlin Coal Waterline Extension, Mason Phase 1 and 2, and Moorefield. Numerous Phase I and Phase II waterline feasibility studies have also been conducted.

NO

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

YES Description and Number of Projects: Triad has performed hundreds of AMD evaluations and abatement designs and is qualified to support this project.

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

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------|
| NAME & TITLE (Last, First, Middle Int.) Chambers, Harold W. (Chip) Project Manager / Survey Department Manager / Project Engineer | YEARS OF AML DESIGN EXPERIENCE: 17 | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 26 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 17 |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------|

Brief Explanation of Responsibilities: Mr. Chambers has performed engineering, surveying and management services for numerous civil design, mine development, commercial, industrial, transportation and mine reclamation projects. Mr. Chambers office duties associated with AML reclamation projects involve mine map review and the planning, coordination, supervision, survey data processing and cost estimation for surveying services on design and mapping projects.

EDUCATION (Degree, Year, Specialization)
BS, 1981, Mining Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
WVWALS

REGISTRATION (Type, Year, State)
MSHA Annual Certification, Surface Coal Mine
Operations

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

| | | | |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------|
| NAME & TITLE (Last, First, Middle Int.) Hare, Robert M., P.E. Civil Department Manager / Senior Engineer | YEARS OF AML DESIGN EXPERIENCE: 3 | YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 10 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 10 |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------|

Brief Explanation of Responsibilities: Mr. Hare has extensive and diversified experience in project management, permitting, marketing, land development/infrastructure development, utility relocation, waterline design, sewer line design, stormwater management design, storm drain design, erosion and sedimentation control, field survey coordination, right of way plan preparation, and highway design. Mr. Hare has over nearly 30 years of diversified civil engineering experience.

EDUCATION (Degree, Year, Specialization)
BS, 1979, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
ASHE

REGISTRATION (Type, Year, State)
Registered Professional Engineer, 1984, WV
Registered Professional Engineer, 1984, PA
Registered Professional Engineer, 1984, MD
Registered Professional Engineer, 1984, VA

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

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------|--------------------------------------------------|
| NAME & TITLE (Last, First, Middle Int.) Krabill, Karen L., P.E. Geotechnical Services Manager / Senior Engineer | YEARS OF EXPERIENCE | | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| | YEARS OF AML DESIGN EXPERIENCE: 15 | YEARS OF AML RELATED DESIGN EXPERIENCE: 15 | |
| Brief Explanation of Responsibilities: Ms. Krabill is responsible for the set-up and supervision of all aspects of geotechnical projects. Her specialties include design of safe and stable fill and excavated slopes. She is proficient in performing stability evaluations, hydraulic and hydrologic analysis and design, and coordination of subsurface explorations. Ms. Krabill's responsibilities on this project will include coordination of the design team and review of all work product generated for the project. | | | |

EDUCATION (Degree, Year, Specialization)
BS, 1984, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)
Registered Professional Engineer, 1984, WV
Registered Professional Engineer, 2007, MD
Registered Professional Engineer, 2008, PA
MSHA Annual Certification, Surface Coal Mine Operations

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

| | | | |
|------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------|
| NAME & TITLE (Last, First, Middle Int.) McCoy, Larry L., Jr., P.E. Senior Engineer | YEARS OF EXPERIENCE | | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 3 |
| | YEARS OF AML DESIGN EXPERIENCE: 2 | YEARS OF AML RELATED DESIGN EXPERIENCE: 11 | |

Brief Explanation of Responsibilities: Mr. McCoy is the responsible engineer for numerous projects including civil site, utilities, roadways, and AML remediation. Mr. McCoy has performed design tasks related to these projects which have included: stream restoration, portal / shaft closure, hydraulic / hydrologic analysis, grading, project specifications, project plans, and other related tasks. Mr. McCoy also served as project manager on these and several related projects.

EDUCATION (Degree, Year, Specialization)
BS, 1996, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)
Registered Professional Engineer, 2001, WV

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

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------|--------------------------------------------------|
| NAME & TITLE (Last, First, Middle Int.) Spradling, Steven R., P.E. Senior Engineer | YEARS OF EXPERIENCE | | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| | YEARS OF AML DESIGN EXPERIENCE: 17 | YEARS OF AML RELATED DESIGN EXPERIENCE: 29 | |
| Brief Explanation of Responsibilities: Mr. Spradling has formulated and implemented subsurface investigations on landfills, roadways / bridges, and structures for coal mining sites and facilities. Mr. Spradling's responsibilities include design and preparation of drawings and specifications. Mr. Spradling's strong background in the construction industry provides Triad with a reliable source in preparing bid documents and evaluating construction bids. | | | |
| EDUCATION (Degree, Year, Specialization) BSCE, 1974, Civil Engineering MSCE, 1992, Civil Engineering | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS WWSPE, ASCE | | | |
| REGISTRATION (Type, Year, State) Registered Professional Engineer, 1993, WV | | | |

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

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------|--------------------------------------------------|
| NAME & TITLE (Last, First, Middle Int.) Murphy, Steve L. ACADD Drafting Manager / Senior Designer | YEARS OF EXPERIENCE | | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 3 |
| | YEARS OF AML DESIGN EXPERIENCE: 10 | YEARS OF AML RELATED DESIGN EXPERIENCE: 15 | |
| Brief Explanation of Responsibilities: Mr. Murphy has over 20 years of experience in surveying with an emphasis in Computer Aided Design Drafting (CADD), and currently serves as a Senior Designer for Triad's Civil Engineering Department. He has been involved in many aspects of surveying, mapping, photo control, property survey, construction layout, and deep mine surveys. Mr. Murphy has also been responsible for the preparation of numerous site grading plans of varying size and magnitude, which routinely include earthwork volume calculations, drainage control plans and portal closure, and has served as the Senior Designer for a number of WVDEP - AML projects. | | | |
| EDUCATION (Degree, Year, Specialization) | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS | | | |
| REGISTRATION (Type, Year, State) | | | |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------|---------------------------------------------------------|
| 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials) | | | |
| NAME & TITLE (Last, First, Middle Int.) Jalali, Parviz J., P.E. Geotechnical Services Manager / Senior Engineer | YEARS OF AML DESIGN EXPERIENCE: 16 | YEARS OF AML RELATED DESIGN EXPERIENCE: 29 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| Brief Explanation of Responsibilities: Mr. Jalali is responsible for geotechnical engineering analysis and design, preparation of geotechnical engineering reports, and provides oversight of field geotechnical engineers and geologists. He has been the lead geotechnical engineer on projects involving hundreds of boreholes and thousands of feet of drilling. Mr. Jalali operates our in-house computers for slope stability analysis, quantity determinations, and computer aided design drafting (CADD). | | | |
| EDUCATION (Degree, Year, Specialization) BACE, 1973, Civil Engineering | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS WVACE, WVSPE, NSPE, ASPE | | | |
| 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials) | | | |
| NAME & TITLE (Last, First, Middle Int.) Hicks, Linda J. (Jane) Project Engineer | YEARS OF AML DESIGN EXPERIENCE: 6 | YEARS OF AML RELATED DESIGN EXPERIENCE: 6 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| Brief Explanation of Responsibilities: Ms. Hicks has provided geotechnical/environmental engineering services with a focus on mining related consequences. Her work has included soil and foundation engineering, subsidence evaluations, environmental testing and assessments, geological analysis, as well as construction testing and inspection. Ms. Hicks is also currently serving as the lead Project Engineer for Triad's ongoing WV BRIM investigations and projects. | | | |
| EDUCATION (Degree, Year, Specialization) BSEM, 1981, Engineering of Mines MA, 1989, Mathematical Education | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MSHA Annual Certification, Surface Coal Mine Operations Humboldt Certified for Nuclear Density Gauge Operations | | | |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------|---------------------------------------------------------|
| 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials) | | | |
| NAME & TITLE (Last, First, Middle Int.) Meeks, John M., P.G., I.R.S. Senior Geologist / Branch Manager / Vice President | YEARS OF AML DESIGN EXPERIENCE: 10 | YEARS OF AML RELATED DESIGN EXPERIENCE: 10 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 6 |
| Brief Explanation of Responsibilities: Mr. Meeks' involvement with AML projects is primarily related to AMD abatement and wetland design. He has provided environmental expertise on all water study feasibility projects. He has supervised field crews and assigned and evaluated analytical reports. Mr. Meeks served as an environmental geologist on the Chief Logan Park AMD project. | | | |
| EDUCATION (Degree, Year, Specialization) BS, 1980, Geology | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS WV Chamber of Commerce - Environmental Committee | | | |
| 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials) | | | |
| NAME & TITLE (Last, First, Middle Int.) Maurin, James (Jim) Environmental Services Manager | YEARS OF AML DESIGN EXPERIENCE: 0 | YEARS OF AML RELATED DESIGN EXPERIENCE: 30 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| Brief Explanation of Responsibilities: Mr. Maurin has joined Triad Engineering after more than 30 years of service with the WV Department of Environmental Protection. For Triad, Mr. Maurin will serve as Environmental Services Manager in the Morgantown, WV office. Mr. Maurin has extensive experience in environmental inspection and assessment, including more than 10 years of experience managing surface mine reclamation activities for the WVDEP. | | | |
| EDUCATION (Degree, Year, Specialization) B.S., 1975, Forest Resources Management | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS REGISTRATION (Type, Year, State) OSHA Health & Safety Training (with annual 8 hour refresher courses); National Association of Corrosion Engineers (NACE) Certified Technician. | | | |

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

| NAME & TITLE (Last, First, Middle Int.) | YEARS OF AML DESIGN EXPERIENCE: | YEARS OF AML RELATED DESIGN EXPERIENCE: | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------|
| <p>Phillips, Carol L. Project Environmental Scientist</p> <p>Brief Explanation of Responsibilities: Ms. Phillips is a Project Environmental Scientist at the Morgantown office of Triad. In this capacity she conducts field work and report writing for environmental projects. She has extensive experience in stream & wetland mitigation construction monitoring, CWA permitting, stream & wetland delineation using US Corps of Engineers Wetland Delineation Manual, hydric soil characterization, wetland vegetation, and field indicators for wetland hydrology. She has also conducted threatened and endangered species habitat surveys and will bring this plus her extensive ESA experience to the project environmental work.</p> <p>EDUCATION (Degree, Year, Specialization) BS, 2009, Agribusiness Management and Rural Development AS, 2003, Environmental Technology / AS, 2003, General Studies Canaan Valley Institute, 2007, Natural Stream Channel Design Construction</p> <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Air & Waste Management Association Society of Wetland Managers Association of State Wetland Managers Virginia Association of Wetland Professionals</p> | 0 | 3 | 0 |
| <p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</p> | | | |
| <p>Sutphin, Amanda M., P.E. Staff Engineer</p> <p>Brief Explanation of Responsibilities: Ms. Sutphin assists the Project Manager on wastewater and potable water projects, as well as general civil engineering projects. In this capacity, Ms. Sutphin facilitates planning, design and construction of civil and sanitary engineering projects in coordination with the client's expectations. Her duties have included design calculations and infrastructure modeling, estimating, pipeline design, and permitting activities.</p> <p>EDUCATION (Degree, Year, Specialization) BS, 2004, Civil Engineering</p> | 1 | 3 | 3 |
| <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> | REGISTRATION (Type, Year, State) Certified Responsible Land Disturber, VA Wetland Plant Identification Training MSHA Annual Certification, Surface Coal Mine Operations | | |
| <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> | REGISTRATION (Type, Year, State) Professional Engineer, 2010, WV | | |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------|---------------------------------------------------------|
| 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials) | | | |
| NAME & TITLE (Last, First, Middle Int.) Work, Lydia M., L.R.S. Branch Manager / Senior Chemist | YEARS OF AML DESIGN EXPERIENCE: 0 | YEARS OF AML RELATED DESIGN EXPERIENCE: 5 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| Brief Explanation of Responsibilities: Ms. Work is currently the Branch Manager of the Morgantown, WV office of Triad Engineering. In this capacity, Ms. Work is responsible for managing staff and contract administration of projects undertaken by the office. She will also provide direction to environmental work on this project, and use her significant background in water chemistry and environmental assessment to provide senior management and oversight. | | | |
| EDUCATION (Degree, Year, Specialization) BS (Honors), 1989, Chemistry | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Management Association West Virginia Manufacturers Association | | | |
| REGISTRATION (Type, Year, State) Licensed Remediation Specialist, 2003, WV OSHA 40 hour Certification MSHA Annual Certification, Surface Coal Mine Operations | | | |
| 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials) | | | |
| NAME & TITLE (Last, First, Middle Int.) Talkington, Ronald A., P.S. Survey Supervisor | YEARS OF AML DESIGN EXPERIENCE: 0 | YEARS OF AML RELATED DESIGN EXPERIENCE: 26 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| Brief Explanation of Responsibilities: Mr. Talkington's field responsibilities associated with abandoned mine lands and reclamation mapping and design projects include construction and property surveys. He has experience in a wide range of survey-related project/client applications, including construction layout, pay item quantity calculation / verification, record research, property surveys and preparation of property plats and legal descriptions. | | | |
| EDUCATION (Degree, Year, Specialization) Various Surveying Courses | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS | | | |
| REGISTRATION (Type, Year, State) Professional Surveyor, 1989, WV MSHA Annual Certification, Surface Coal Mine Operations | | | |

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| 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials) | | | |
| NAME & TITLE (Last, First, Middle Int.) McCarty, Earnest M., P.S. | YEARS OF AML DESIGN EXPERIENCE: 10 | YEARS OF AML RELATED DESIGN EXPERIENCE: 20 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 13 |
| <p>Brief Explanation of Responsibilities: Mr. McCarty is currently the Project Manager of the Surveying Department for the St. Albans office of Triad. Having managed and completed a wide variety of projects including cadastral boundary surveys, boundary records research, conventional horizontal and vertical control networks, geodetic control surveys, topographic surveys, hydrographic surveys and photogrammetry control surveys.</p> <p>EDUCATION (Degree, Year, Specialization) BS, 1992, Civil Engineering Technology AS, 1991, Surveying Technology AS, 1991, Drafting & Design</p> <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS SAME, WVALS</p> | | | |
| 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials) | | | |
| NAME & TITLE (Last, First, Middle Int.) Frazee, Michael D., P.S. Survey Supervisor | YEARS OF AML DESIGN EXPERIENCE: 1 | YEARS OF AML RELATED DESIGN EXPERIENCE: 5 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| <p>Brief Explanation of Responsibilities: Mr. Frazee has over 10 years of diversified surveying experience. He is responsible for the daily supervision of field crews and the coordination of field and office survey work. Mr. Frazee's responsibilities include the supervision of boundary, right-of-way, topographic, as-built, and construction surveys, construction survey stakeout calculations, courthouse deed research, production of survey mapping, scheduling of field work and crew assignments, preparation of survey related reports, and survey work estimates. Mr. Frazee has provided survey services to private individuals, local and state agencies, and large commercial, energy, and industrial companies. Most recently, he supported the surveying efforts for the Belington Portals & Drainage project.</p> <p>EDUCATION (Degree, Year, Specialization) A.S., 2001, Land Surveying</p> | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS WV Association of Land Surveyors | | | |
| REGISTRATION (Type, Year, State) Professional Surveyor, 2005, WV | | | |

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

| | | | |
|------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------|------------------------------------------------------|
| NAME & TITLE (Last, First, Middle Int.) Gardner, William M. Drilling Services Manager / Geologist | YEARS OF AML DESIGN EXPERIENCE: 19 | YEARS OF AML RELATED DESIGN EXPERIENCE: 27 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 |
| | YEARS OF EXPERIENCE | | |

Brief Explanation of Responsibilities: Mr. Gardner has over 29 years of experience as a geologist and has managed Triad's Morgantown, WV drilling operations since 1982. His career has included drilling at numerous mining sites, many of them AML. His experience has included horizontal drilling and sampling in coal seams, deep mine mineral reserve projects, installation of monitoring wells and piezometers, core borings in sensitive environmental conditions such as streams and wetlands, mine floor evaluations, deep mine grout evaluations, and geotechnical, environmental and construction-related projects.

EDUCATION (Degree, Year, Specialization)
BS, 1975, Geology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
NDCA

REGISTRATION (Type, Year, State)
Certified Monitoring Well Driller, 2000, WV
MSHA Annual Certification, Surface Coal Mine Operations

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

| | | | |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------|-----------------------------------------------------|
| NAME & TITLE (Last, First, Middle Int.) Simar, Roger A. Field Services / Laboratory Services Manager | YEARS OF AML DESIGN EXPERIENCE: 0 | YEARS OF AML RELATED DESIGN EXPERIENCE: 32 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 |
| | YEARS OF EXPERIENCE | | |

Brief Explanation of Responsibilities: Mr. Simar has over 30 years of experience performing and providing QA/QC inspection, and laboratory testing services for Triad Engineering, Inc. He has 20 years of experience as Triad's Laboratory / Field Services Coordinator. Mr. Simar is experienced in most phases of earthwork, asphalt, and concrete construction. He is also knowledgeable in most basic laboratory test procedures for soil, concrete, aggregate and asphalt materials. Mr. Simar schedules field testing projects and personnel, reviews and submits field reports, provides problem solving and client consulting, writes reports, and prepares invoices. He also schedules and prioritizes all laboratory tests that are conducted, and reviews, approves and writes laboratory test reports. Additionally, Mr. Simar is the Radiation Safety Officer for Triad. He is responsible for inventory, leak testing, maintenance, and calibration of the company nuclear-density gauges. He is also responsible of the safety training and record keeping requirements in order to comply with NRC regulations.

EDUCATION (Degree, Year, Specialization)
AS, 1976, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
APAWW

REGISTRATION (Type, Year, State)
-WV DOH Certifications: Bituminous Concrete Tech. (#651); Portland Cement Concrete Tech. (#693); Aggregates Technician (#112); Compaction Tech. (#312); Marshall Mix Design
-Fairmont State University: Cert. Inspector, Level V
-National Inst. For Cert. in Engineering Technologies: Senior Civil, Geotechnical Eng. Tech. (#060687)
-American Concrete Institute: Concrete Tech., Grade 1 (#196-38-3400)
-Troxler Electronics Laboratories: Radiation Safety
-Humboldt Scientific, Inc.: Cert. Radiation Safety Officer

Equipment Listing

Drilling Equipment:

| | |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Track Mounted Drill Rigs | 1- Simco 5000 2- Davey DK 90 1- Davey DK 50 1- CME 55 1- CME 45 |
| All Terrain Drill Rigs | 1- CME 55 1- Mobile B53 |
| Truck Mounted Rigs | 3- Mobile B53 1- Mobile B52 1- Mobile B61 HDX |
| Skid Mounted Rigs | 1- Diedrich 25 |
| Transport Vehicles | 4- Peterbilt Tandem Axle Tiltbeds 1- Mack Tandem Axle Tiltbed 2- Tractor Trailers Truck with Lowboy Trailers 4- Flatbed Trucks 1- Box Truck 15- 4WD ¾ Ton Support Trucks |
| Portable Drilling Equipment | 2- Motorized Cathead / Tripod Units 2- Handheld Sampling Equipment 1- Pontoon Boat 1- Portable Barge |

Miscellaneous equipment includes Dutch cone Penetrometer, Mobile Grout Pump (Chem-Grout), Steam Jenny (Whitco), Steam Jenny (Hotsy), 600 CFM Air Compressor (Sullair), various size utility trailers.

Protective Clothing & Equipment-Complying with EPA & OSHA Regulations
Air Purifying Respirators & Supplied Air Respirators

Equipment Listing

Continued – page 2

Drilling Tools:

- Hollow Stem Augers (2 ¼" I.D., 3 ¼" I.D., 4 ¼" I.D., 6 ¼" I.D.)
- Continuous Flight Augers
- NQ Core Equipment
- AW Core Equipment
- Pressure Testing Equipment
- Water Pumps, Trucks and Tanks
- Shelby-Tube Samplers (2", 3" and 5" Diameter)
- Split-Spoon Samplers (2" and 3" Diameter)
- CME Continuous 5.0' Length Samplers
- Longyear Casing Advancer (HQ)
- Downhole Hammer

Laboratory Equipment:

- Triaxial Compression Machine
- Manual Proctor Devices (standard and modified)
- Automatic Proctor Hammer
- Turbidimeter
- Hydrometer
- pH Tester (soil & water)
- Electronic Scales
- Unconfined Compression Machine
- Atterberg Limits Devices
- California Bearing Ratio Devices
- Electrical Resistivity Devices
- Specific Gravity Devices (soils & aggregates)
- 2000 Degree Fahrenheit Oven
- Permeability Cells & Panels
- Consolidometers

Equipment Listing

Continued – page 3

- Electronic Manometers
- Concrete Compressive Strength Equipment
- Aggregate Shakers
- Sieve Shakers
- Sample Splitters
- Unit Weight Buckets
- Slake Durability Machine
- Gradation Sieves
- L.A. Abrasion Test Equipment
- Soiltest Loading Devices
- Sodium Sulfate Soundness Test Equipment
- Asphalt Test Equipment
- Relative Density Determination Device

Field Testing Equipment:

Soil

- Nuclear Moisture/Density Gauges
- Sand Cone Equipment
- Support Compaction Testing Equipment
- Digitilt Slope Indicator
- Pocket Penetrometers
- Hand Augers
- Static Cone Penetrometers

Equipment Listing

Continued – page 4

Concrete

- Air Meters (pressure & volumetric)
- Slump Cones & Accessories
- Windsor Probes
- Rebound Hammers
- Concrete Core Drills & Accessories
- Concrete Slab Profiler

Water

- Pressure Transducer / Data Logger & Associated Software
- pH Meters
- Turbidity Meters
- Iron Test Kits
- Dissolved Oxygen Meter
- Water Test Kits

Structural Steel, Bolt, and Paint

- Torque Wrenches
- Magnetice Gauges
- Tooke Gauges
- Wet File Gauges
- Sling Psychrometers
- Dye Test Kits

Equipment Listing

Continued – page 5

Environmental Testing

- OVA Meters (Trace Gas Analyzer by Flame Ionization)
- HNU Meters (Trace Gas Analyzer by Photoionization)
- Air-Stripping Unit for Water Treatment
- LEL/Oxygen Meter
- Draeger Pump and Assorted Tubes
- pH/ Conductivity/ Temperature Meters
- Hammer Drill and Associated Sampling Equipment

Field Laboratory Trailer

- Equipped as Required for Specific Projects

Surveying and Mapping Equipment

- Total Station Survey Instruments (Topcon, Lietz, Hewlett Packard, various models, 25 total)
- Wild T2 Precise Theodolite
- 2 Trimble 4000ssi Total Station GPS Recievers
L1/ L2 dual frequency capability
OTF (On The Fly) Initialization
1.0MB static memory
- 2 Compact L1/ L2 frequency GPS Antenna w/ detachable geodetic groundplane
- 1 Pacific Crest 35w Data Transmitter
- 1 Pacific Crest 2w Data Reciever
- Trimble GPSurvey Software (v2.30b)
- Trimble TRIMNET Software (v92.11c)
- Dell Dimension XPS-D333 Computer w/ Dell Trinitron Monitor

Equipment Listing

Continued – page 6

- CTX – 300 MHz Laptop Computer
- Toshiba – 200 MHz Laptop Computer
- Thodolites (Dietzgen, 2 total)
- Engineer's Transits
- Data Collectors (SMJ – Construction V, HP 48 GX, Topcon, Leitz, various models, 20 total)
- Wild N3 Precise Level
- Automatic Levels (Lietz, Pentax, Wild, various models, 25 total)
- Planimeters (4)
- Various Lengths of Engineer Chains, Precision Leveling Rods
- 12 ft. Boat with Trolling Motor
- Pontoon Boat

Computer Equipment:

Software

- MicroStation J
- MicroStation SE
- MicroStation V8 – (2) Network Administered
- Bentley View (41) Network Administered
- InRoads v8.3 – Network Administered
 - InRoads Bridge
 - InRoads Site
 - InRoads Storm & Sanitary
 - InRoads Survey

Equipment Listing

Continued – page 7

-
- AutoCAD 2005 Land Development Desktop – (2) Network Administered
 - AutoCAD Civil Engineering Desktop – Network Administered
 - AutoCAD 2005 – (2) Network Administered
 - Site SelectCAD Package
 - SurvCADD 2000 (2)
 - Corel WordPerfect 2000 (21)
 - Corel WordPerfect 2002 (20)
 - Microsoft Office 97 Professional (21)
 - Microsoft Office 2000 Premium (3)
 - Microsoft Office XP Professional (8)
 - Microsoft Office Professional 2003 (9)
 - Microsoft Windows 98SE (21)
 - Microsoft Windows 2000 Professional (3)
 - Microsoft Windows XP Professional (17)
 - Adobe Photoshop 7 (2)
 - Adobe PageMaker 7 (2)
 - Adobe Acrobat 6 Pro (21)
 - Adobe PageMill (2)
 - Adobe Illustrator 7 (2)
 - Adobe InDesign 2 (2)
 - Adobe GoLive 6 (2)
 - Macromedia Studio MX (2)
 - PCSTABL6/STED – Slope Stability
 - UTEXAS2 – Slope Stability
 - COGOPC+ - Surveying and Mapping

Equipment Listing

Continued – page 8

-
- CONTOUR+ - Surveying and Mapping
 - HEC1 – Flood Hydrograph Package
 - HEC2 – Water Surface Profiles
 - DAMS2 – SCS Structure Site Analysis
 - PONDPACK – Urban Hydrology and Detention Pond Design
 - GEOPRO – Geotechnical Engineering Software
 - LPILE Plus 4.0 for Windows – Pile Design
 - SHAFT 4.0 for Windows – Caisson Design
 - HELPMODEL – Hydrologic Evaluation of Landfill Performance
 - FLOWMASTER 7.0 - Network Administered Pipe and Ditch Sizing
 - WaterCAD for AutoCAD – 6.5 – Network Administered
 - StormCAD for Windows
 - CULVERTMASTER – Culvert Design and Analysis
 - EXXON I – Pavement and Subbase Thickness Design
 - Trimble GPSurvey Software (v2.30b)
 - Trimble TRIMNET Software (v92.11c)
 - Q & A Database
 - Peachtree Accounting (time & billing)
 - Protrax Axium accounting
 - Laboratory Test Data Reduction Programs
 - GeoSystems – Geotech Engineering Materials Testing
 - gINT 6 – (7)
 - Lotus 123 Spreadsheet

Equipment Listing

Continued – page 9

- HWY – Asphalt Pavement Thickness for Streets and Overlays
- HWLOAD – Asphalt Pavement Thickness for Heavy Wheel Loads
- Government Forms Software '98 (SF 254/255)
- Deed Plotter for Windows
- HEC-HMS
- HEC-RAS
- HEC-Storm Sewers
- Hydraflow Hydrographs
- Hydraflow Storm Sewers
- CP-4 Asphalt
- Server Software
 - Windows 2000 Professional Server
 - Microsoft Exchange 2000 Server
 - Symantec Anti-virus Server
 - Symantec Mail Security AVF filter for MS Exchange
 - Symantec Web Security
 - Veritas Backup Exec 9.1 for Windows Servers
 - TripLite Power Alert

Equipment Listing

Continued – page 10

Hardware

- PIII (400MHz – 1 GHz), 21 Stations total, up to 40GB Hard Drives
- P4 (1 GHz – 2 GHz) (14)
- P4 (2 GHz – 3.4 GHz) (5)
- Notebook Computers (6)
- Digital Cameras (3)
- Printers
 - HP Color LaserJet 4500
 - HP LaserJet 4100 (2)
 - HP LaserJet 4000
 - HP LaserJet 1300 (3)
 - HP LaserJet v4
- Plotters
 - HP DesignJet 1050C
 - HP DesignJet 750C (2)
- Fax Machines
 - HP 3100
 - Brother MFC4600
- Copiers
 - Xerox 5343C
 - Xerox Document Centre 440 DC
 - K&E CADD Copier
- Firewall
 - Cisco PIX 506E Security Appliance
- Compaq Proliant ML370 G2 Server
- TripLite UPS

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

| PROJECT NAME, TYPE AND LOCATION | NAME AND ADDRESS OF OWNER | NATURE OF YOUR FIRM'S RESPONSIBILITY | ESTIMATED CONSTRUCTION COST | PERCENT COMPLETE |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------|
| Little Laurel Run AML Project Preston County, WV | WVDEP - AML&R 601 57th Street Charleston, WV 25304 | Engineering Design | N/A | 10% |
| Mullens Portals Project Wyoming County, WV | WVDEP - AML&R 601 57th Street Charleston, WV 25304 | Engineering Design | N/A | 50% |
| Elk Creek Portals Mingo County, WV | WVDEP - AML&R 601 57th Street Charleston, WV 25304 | Engineering Design & Mapping - Deep Mine Reclamation, Portal Closure, Project Specifications, Water Quality/Treatment, Construction Monitoring | N/A | 90% |
| Rumble (Stevens) Refuse & Portals Boone County, WV | WVDEP - AML&R 601 57th Street Charleston, WV 25304 | Engineering Design - Surface/Deep Mine Reclamation, Portal Closures, Project Specifications, Geotechnical Evaluations, Construction Monitoring | N/A | 90% |
| Belington Portals & Drainage Logan County, WV | WVDEP - AML&R 601 57th Street Charleston, WV 25304 | Engineering Design - Surface/Deep Mine Reclamation, Portal Closure, Project Specifications, Water Quality/Treatment, Geotechnical Evaluations, Construction Monitoring | N/A | 95% |
| Mine Subsidence Investigations, Engineering Throughout WV | WV Board of Risk & Insurance Management 4501 MacCorkle Avenue South Charleston, WV 25309 | Mine Subsidence Investigations, Engineering Consulting Services | N/A | Ongoing Contract |
| Asbestos Inspections, Throughout WV | WV DOT / DOH 1900 Kanawha Blvd., East Charleston, WV 25305 | Asbestos Inspections | N/A | Ongoing Contract |

| | | | | |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|
| WVDOT / DOH Testing & Inspection, Throughout WV | WVDOT / DOH 1900 Kanawha Blvd., East Charleston, WV 25305 | Testing and inspection services for WVDOT/DOH projects | N/A | Ongoing Contract |
| WVDOT / DOH Geotechnical & Drilling Services, Throughout WV | WVDOT / DOH 1900 Kanawha Blvd., East Charleston, WV 25305 | Geotechnical engineering and drilling services for WVDOT/DOH projects | N/A | Ongoing Contract |
| WVDOT / DOH Environmental & Drilling Services, Throughout WV | WVDOT / DOH 1900 Kanawha Blvd., East Charleston, WV 25305 | Environmental consulting services and/or related drilling services for WVDOT/DOH projects | N/A | Ongoing Contract |
| Indefinite Delivery / Indefinite Quantity Contract - Surveying & Mapping, Various Locations | US Army Corps of Engineers Huntington District 502 Eighth Street Huntington, WV 25701 | On-call surveying and mapping services for USACE - Huntington District projects | N/A | Ongoing Contract |
| Probable Hydrologic Consequences of Mining, Various Sites in WV and PA. | Various Mining Clients in WV and PA | Determine the potential impacts of mining-related activities on the hydrologic balance. Evaluate hydrologic and geochemical data; determination of potential for adverse hydrologic consequences; and recommendations for avoidance of adverse impacts. | N/A | Ongoing |
| America Church Bridge Replacement, Mingo County, WV | WVDOT / DOH 1900 Kanawha Blvd., East Charleston, WV 25305 | Highway / Bridge Design | N/A | 50% |
| FAA Improvement Projects (Various), Charleston, WV | Central WV Regional Airport Authority 100 Airport Road Charleston, WV 25311 | Civil Engineering / Surveying | \$3-5M | 80% |
| New Haven Water / Sewer Line Extension, New Haven, WV | Town of New Haven PO Box 217 New Haven, WV 25265 | Water / Sewer Line Extension Design | \$1-3M | 90% |

| | | | | |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|
| Mammoth Coal Handling Facility, Kanawha County, WV | Mammoth Coal Company PO Box 150 Cannelton, WV 25036 | Geotechnical Engineering, Drilling, QA/QC, Laboratory Testing Services | N/A | 90% |
| Justice Mine Exploration, Boone County, WV | Independence Coal HC78, Box 1800 Madison, WV 25130 | Drilling & Geological services | N/A | 90% |
| Marion County Landfill Marion County, WV | WVDEP / DLR / LCAP 601 57 th Street, SE Charleston, WV 25304 | Landfill Closure Design - Site Characterization study, leachate management, closure cap design and QA/QC. Environmental / Geological services, Drilling, Surveying & Mapping, Geotechnical & Civil Engineering & Design, QA/QC, Laboratory Testing | N/A | 75% |
| Morgan County Landfill, Morgan County, WV | WVDEP / DLR / LCAP 601 57 th Street, SE Charleston, WV 25304 | Landfill Closure Design - Site Characterization study, leachate management, closure cap design and QA/QC. Environmental / Geological services, Drilling, Surveying & Mapping, Geotechnical & Civil Engineering & Design, QA/QC, Laboratory Testing | N/A | 75% |
| ALCON Site Sampling Huntington, WV | Alcon Manufacturing 6065 Kyle Lane Huntington, WV 25702 | NPDES Environmental Sampling Services | N/A | Ongoing Contract |
| Heartland Facility Additions Kingwood, Keyser & Rainelle, WV | Healthcare & Retirement Corporation of America, Inc. 7361 Calhoun Place, Suite 300 Rockville, MD 20855 | Civil Engineering Site Design, Geotechnical / Subsurface Drilling & Exploration, Environmental assessment, Surveying & Mapping, QA/QC/Testing for additions to healthcare facilities | N/A | 95% |
| TOTAL NUMBER OF PROJECTS: | | TOTAL ESTIMATED CONSTRUCTION COSTS: \$ | | |

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

| PROJECT NAME, TYPE AND LOCATION | NATURE OF FIRMS RESPONSIBILITY | NAME AND ADDRESS OF OWNER | ESTIMATED COMPLETION DATE | ESTIMATED CONSTRUCTION COST | |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------|-----------------------------|---------------------------|
| | | | | ENTIRE PROJECT | YOUR FIRMS RESPONSIBILITY |
| 502 Junction Substation, Mt. Morris, PA & PREXY Substation, Cannonsburg, PA | Preparation of an ALTA/ACSM Land Title Survey for Kenny Construction Co. | Allegheny Energy Service Co. 800 Cabin Hill Dr., Greensburg, PA 15601 | 2011 | N/A | Ongoing project |
| Longview Power Plant Monongalia County, WV | Geotechnical / Subsurface Investigations, Drilling & Sampling, Surveying & Mapping, QA/QC, Laboratory Testing for Siemens Power Generation and Aker Construction | GenPower Holdings, L.P. 1040 Great Plain Ave., Needham, MA 02492 | 2010 | \$1,820,000,000 | Ongoing; \$750,000+ |
| Raleigh Street Extension Berkeley County, WV | Geotechnical Engineering, Drilling & Sampling, Surveying & Mapping Services for PB Americas, Inc. | WVDOT / DOH 1900 Kanawha Blvd., East Charleston, WV 25305 | 2009 - 2010 | N/A | Ongoing project |
| Nuttallburg Mine Complex, New River Gorge, WV | Geotechnical Engineering, Lab Drilling, Surveying & Construction Management | National Park Service PO Box 246 Glen Jean, WV 25846 | 2010 | N/A | Ongoing Project |
| Sawmill Village Snowshoe, WV | Drilling & Sampling, Geological Services | Snowshoe Mountain Resort 10 Snowshoe Drive Snowshoe, WV 26209 | 2009 | N/A | \$12,000 |

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

| PROJECT NAME, TYPE AND LOCATION | NAME AND ADDRESS OF OWNER | ESTIMATED CONSTRUCTION COST | YEAR | CONSTRUCTED (YES OR NO) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|-------------------------|
| Tibbs Run (Perine) Landslide Remediation Project (Drilling, remedial design package, relocation of utilities, erosion control, construction documentation, revegetation) | WVDEP - AML&R 105 South Railroad St. Phillippi, WV 26416 | N/A | 2008 | Yes |
| Fairmont (Smith) Subsidence (Mining assessment, site reconnaissance, field & subsurface investigations, drilling, field surveying & mapping, remedial design package, construction documentation, pre/post construction meetings, construction monitoring) | WVDEP - AML&R 105 South Railroad St. Phillippi, WV 26416 WV Board of Risk & Insurance Management 4501 MacCorkle Avenue South Charleston, WV 25309 | N/A | 2009 | Yes |
| Jessop Portals Jessop, WV | Friends of the Cheat 109 South Price Street Kingwood, WV 26537 | N/A | 2007 | Yes |
| Federal No. 2 Mine Refuse Area Refuse Sampling & Vegetation Analysis Bula, WV | Peabody Energy Miracle Run Road Bula, WV | N/A | 2008 | Yes |
| Grafton Coal Company Mt. Storm, WV | NedPower II, LLC Chantilly, VA 20151 | N/A | 2008 | Yes |
| HIGHLANDS AT BLACKWATER LAND DEVELOPMENT PROJECT TUCKER COUNTY, WV | BLACKWATER INVESTMENT GROUP 2615 WINDRIDGE DRIVE DOYLESTOWN, PA 18902 | N/A | 2007 | Yes |
| Jimtown Tipple Lumberport, WV Geotechnical Evaluation | WVDEP AML & R 105 S. Railroad St. Suite 201 Phillippi, WV | N/A | 2004 | Yes |

| | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----|------|----------|
| Vens Run Landslide #2 Jane Lew, WV Geotech/Drilling/Surveying | WVDEP AML & R 105 S. Railroad St. Suite 201 Philippi, WV | N/A | 2004 | Yes |
| Mettiki Coal, Test Drilling for Monitoring Well Development over a Proposed Deep Mine, Garrett County, MD | Mettiki Coal Company 293 Table Rock Road Oakland, MD 21550 | N/A | 2004 | Yes |
| Mettiki Coal, Rock Coring & Piezometer Installation Over Longwall Mine in Grant Co, WV | Mettiki Coal Company 293 Table Rock Road Oakland, MD 21550 | N/A | 2005 | Yes |
| Fairmont General Hospital Wellness Center Marion County, WV Geotech./Mining Assessment | Fairmont General Hospital Locust Avenue Fairmont, WV | N/A | 2006 | Yes |
| WVU Alumni Center Monongalia County, WV Geotechnical Evaluation | West Virginia Alumni Assoc. Erickson Alumni Center Morgantown, WV | N/A | 2004 | Yes |
| Rosemont Highway & Portals Barbour County, WV Design Regrading & Drainage | WVDEP AML & R 105 S. Railroad Street Suite 201 Philippi, WV | N/A | 2002 | Yes |
| Duffy St./Van Rufus Drive Subsidence Project Shinnston, WV Reclamation Design | WVDEP AML & R 105 S. Railroad Street Suite 201 Philippi, WV | N/A | 2003 | Yes |
| Suncrest Towne Centre Monongalia County, WV Geotechnical Eval./QA/QC | 705 Development Group Suncrest Village Morgantown, WV | N/A | 2004 | On-Going |
| Westwood & Cass Elementary Schools, Morgantown High, Clay Batelle High, Mason- Dixon Elementary Monongalia County, WV Geotechnical/Surveying | Monongalia County Board of Education 13 S. High Street Morgantown, WV | N/A | 2004 | Yes |

| 18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE) | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| PROJECT NAME, TYPE AND LOCATION | NAME AND ADDRESS OF OWNER | ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION | YEAR | CONSTRUCTED (YES OR NO) | FIRM ASSOCIATED WITH | |
| Lincoln Hall Dormitory, WVU Evansdale Campus Civil, ESA, testing | West Virginia University, Planning Design & Construction Morgantown, WV 26506 | Project cost \$14,500,000 | 2006 | yes | American Campus Communities, 805 Las Cimas Parkway Ste 400 Austin TX 78746 | |
| West Virginia Univ. Admin Bldg & Parking Bldg, Morgantown WV; geotech/drilling/foundation design | West Virginia University, Planning Design & Construction Morgantown, WV 26506 | 100,000 | 2004 | Yes | March Westin Co., 360 Frontier St., Morgantown WV 26505 | |
| Waterfront Hotel & Conf Center, Morgantown WV Geotech/drilling/testing | Platinum Properties, 990 Elmer Prince Dr Morgantown, WV 26505 | Project cost \$32,000,000 | 2004 | Yes | March Westin Co., 360 Frontier St., Morgantown WV 26505 | |
| University Towne Centre, Retail Shopping Complex, Granville WV; testing, surveying, geotech, drilling | Ideal Co. (Cracker Barrel) 8313 N. Kimmel Rd, Clayton OH 45315; Complete Const.(Olive Garden), 11700 Commonwealth, Louisville KY 40299 | Unknown | 2007 | Various retail stores built; development on-going | CONSOL Energy/CNX Land Resources, 4000 Brownesville Rd., South Park PA 15129 | |
| Mohongalia General Hospital Addition Surveying Services | Mohongalia Health Systems, Inc., 1200 J.D. Anderson Drive, Morgantown, WV 26505 | Project Cost: \$92,000,000 | 2008 | Yes | Turner Construction Co. Two PNC Place 620 Liberty Avenue, 27 th Floor Pittsburgh, PA 15222 | |
| Engineering Sciences Building, East Wing Addition Surveying Services | West Virginia University, One Waterfront Place, Morgantown, WV 26506 | N/A | 2008 | Yes | TEDCO Construction Co. TEDCO Place Carnegie, PA 15106 | |
| Mon-Fayette Expressway Surveying, QC / Testing Services | WV Dept. of Transportation Building 5, 1900 Kanawha Blvd., East Charleston, WV 25305 | N/A | Ongoing | Yes - ongoing | Mosites Construction Co. 4839 Campbells Run Road Pittsburgh, PA 15205 | |

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

Triad Engineering, Incorporated (TRIAD) is a full service engineering firm specializing in the areas of geotechnical, civil and mining engineering and design, environmental assessment, surveying and mapping, construction monitoring, subsurface exploration, and laboratory testing, among other earth science disciplines. Our current work force includes civil, geotechnical and mining engineers, environmental scientists, geologists, hydrologists, chemists, surveyors, trained Computer Aided Design Drafting (CADD) draftsmen, field and laboratory technicians, drillers and support personnel.

TRIAD was founded in Morgantown, West Virginia (WV) in 1975 by three principals who molded the firm based on their belief that if the highest standards were maintained throughout all aspects of the company, they would earn their clients' respect, therefore ensuring the firm's continued growth. Today, TRIAD has a staff of over 200 full-time employees and six office locations in WV, Pennsylvania, Maryland and Virginia. By providing an array of competent services, using modern equipment, and maintaining a well-trained professional staff, TRIAD has maintained the founders' philosophies and proven that customer satisfaction results in good relationships and repeat business.

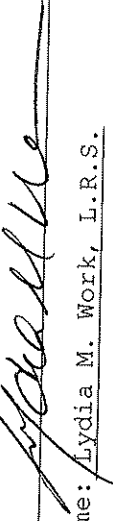
Furthermore, TRIAD is an employee-owned company with an active Board of Directors. Current Officers and Board Members are:

- Chief Executive Officer (CEO) – Randy Moulton, PE
- Senior Vice President – John Meeks, PG, LRS
- Chief Financial Officer (CFO) – Tina McPhail
- Chief Operations Officer (COO) – John Kent, PE
- William Gardner
- Robert Holstead, PE
- Parviz Jalali, PE
- David Moore
- Brad Reynolds, PE
- Roger Simar

TRIAD has successfully performed thousands of projects utilizing its professional expertise. TRIAD employees pride themselves on their ability to provide the firm's clients with top-quality work that is on schedule and within budget. Our company is small enough to be responsive to the needs of our customers and large enough to remain at the forefront of scientific solutions.

We are extremely proud of our performance under past contracts, including those we have held with the WVDEP. As of this date, more than 400 AML&R projects have been undertaken by TRIAD. The vast majority of these projects have been successfully completed on time and within the proposed cost estimate. As always, TRIAD will commit the necessary resources to meet the needs of this project.

20. The foregoing is a statement of facts.

Signature: 

Printed Name: Lydia M. Work, I.R.S.

Title: Branch Manager

Date: 23 June 2010

| AML and RELATED PROJECT EXPERIENCE MATRIX | | PROJECT EXPERIENCE REQUIREMENTS | | | | | | | | | | | | | | PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional | | | | | | | | | | | |
|-------------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------|----------------|------------------|----------------------|-----------------------------------|---------------------|----------------------------|--------------------------|------------|--------------------------|------------------------|-------------------------------------------------|------------------------------------|-------------------------------------------------------------------------|-----------------------------|--------------------|------------------------|----------------------|------------------------|-----------------|--------------------|------------------------|--------------------|---|---|
| PROJECT | Exp. Basis C=Corp. P=Personal | Additional Info Provided in Section (s) ** | Abandoned Surface | Abandoned Deep | Mine Reclamation | Portal/Shaft Closure | Hydrologic/Hydraulic Design/Eval. | Remining Evaluation | Mine/Refuse Fire Abatement | Subsidence Investigation | Mitigation | Hazardous Waste Disposal | Project Specifications | Water Quality Evaluation/Mitigation/Replacement | Construction Inspection/Management | Water Treatment | Equipment/Structure Removal | Stream Restoration | Geotechnical/Stability | Robert M. Hare, P.E. | Karen L. Krabill, P.E. | Steve L. Murphy | Harold W. Chambers | Michael D. Frazier, PS | William M. Gardner | | |
| | | | Blaser Refuse & Portals | C | | | X | X | X | | | | | | | X | X | | | | | X | | | P | | |
| Childs Highway & Portals | C | | | X | X | X | X | | | | | | X | X | | | | | X | | | | P | | | | P |
| Homer Run Portal, Highway & Slide | C | | X | X | X | X | X | | | | | | X | X | | | | | X | | | | P | | | | P |
| Wayne Shreve Portals | C | | X | X | X | X | X | | | | | | X | X | | X | | | X | | | | P | | | | P |
| Jessop Portals | C | | X | X | X | X | X | | | | | | X | X | | X | | | X | | | M/P | | | | | P |
| Albert Highway & Portals | C | | X | X | X | X | X | | | | | | X | X | | X | | | X | | | | P | | | | P |
| Rosemont Highway & Portals II | C | | X | X | X | X | X | | | | | | X | X | | X | | | X | | | | P | | | | P |
| Stillhouse Run Refuse | C | | X | X | X | X | X | | | | | | X | X | | X | | | X | | | M/P | | | | | |
| Philip Thorn Highway | C | | X | X | X | X | X | | | | | | X | X | | X | | X | | | | | P | | | | |
| North 8th Street Refuse & Portals | C | | X | X | X | X | X | | | | | | X | X | | X | | | X | | | | P | | | | P |
| Livengood Highway & AMD | C | | X | X | X | X | X | | | | | | X | X | | X | | | X | | | | P | | | | P |
| Belington Portals & Drainage | C | | X | X | X | X | X | | | | | | X | X | | X | | | X | | | | | | | P | P |
| Fairmont (Smith) Subsidence | C | | | | | | | | | X | | | X | X | | X | | | X | | | | | | | P | P |

* List whether project experience is corporate or personnel based or both.

** Use this area to provide specific sections or pages if needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed

| AML and RELATED PROJECT EXPERIENCE MATRIX | | | | | | | | | | | | | | | | | | PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional | | | | | | | | | | | | | | | |
|-------------------------------------------|-----------------------------------|-------------------------------------------|------------------------------------|---------------------------------|----------------------|-----------------------------------|---------------------|----------------------------|--------------------------|------------|--------------------------|------------------------|-------------------------------------------------|------------------------------------|-----------------|-----------------------------|--------------------|-------------------------------------------------------------------------|-----------------|--------------|---------------|-----------|--------------------------|---------------------|--|--|--|--|--|--|--|-----|--|
| PROJECT | Exp. Basis C=Corp. P=Professional | Additional Info Provided in Section (b) 4 | PROJECT EXPERIENCE REQUIREMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Abandoned Surface Mine Reclamation | Abandoned Deep Mine Reclamation | Portal/Shaft Closure | Hydrologic/Hydraulic Design/Eval. | Remining Evaluation | Mine/Refuse Fire Abatement | Subsidence Investigation | Mitigation | Hazardous Waste Disposal | Project Specifications | Water Quality Evaluation/Mitigation/Replacement | Construction Inspection/Management | Water Treatment | Equipment/Structure Removal | Stream Restoration | Geotechnical/Stability | Lee McCoy, P.E. | Mark Clutter | Amanda Suphin | Dane Ryan | John Meeks, P.G., L.R.S. | E. Mack McCarty, PS | | | | | | | | | |
| Morris Creek Drainage | C | | | | | | | | | | | | | | | X | X | X | | | | | | | | | | | | | | | |
| WVU Tech Drainage | C | | | | | | | | | | X | | | | | X | X | X | | | | | | | | | | | | | | | |
| Coal Hollow Refuse "A" | C | | | | | X | X | X | X | | | | | | | X | X | X | | | | | | | | | | | | | | | |
| Dille-Widen Water Feasibility | C | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | P/M | |
| Mullens Water Feasibility | C | | | | | | | | | | | X | | | | X | | | | | | | | | | | | | | | | P/M | |
| Logan AMD | C | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | P | |
| Elk Creek Portals | C | | | | | X | X | X | X | | | | | | | X | X | X | | | | | | | | | | | | | | P | |
| Rumble (Stevens) Refuse & Portals | C | | | X | X | X | X | X | X | | | | | | | X | X | X | | | | | | | | | | | | | | P | |
| Belington Portals & Drainage | C | | | X | X | X | X | X | X | | | | | | | X | X | X | | | | | | | | | | | | | | P | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* List whether project experience is corporate or personnel based or both.

** Use this area to provide specific sections or pages if needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed

I. INTRODUCTION

TRIAD ENGINEERING, INC., (TRIAD) proposes to perform engineering design and related services, including surveying and construction monitoring, for the Birds Creek Portals Design project in Preston County, West Virginia. Factors that make TRIAD a strong candidate for consideration include:

- Past experience & complete familiarity with AML&R projects
- In-house capabilities
- Experienced professional and support personnel
- 100% employee owned and operated West Virginia firm
- Strong geotechnical background
- Outstanding laboratory facilities
- Expeditious & economical mobilization of drilling rigs, equipment and personnel
- Experience in major design projects

TRIAD has completed over 400 projects for the WVDEP. Each project has involved various areas of expertise and problem types. In addition to WVDEP projects, TRIAD has successfully completed major design projects for other government agencies, large coal mining concerns, chemical manufacturers, developers and numerous other clients. TRIAD's responsibilities on these projects have included, but were not limited to:

- Design Development and Drawings
 - Geotechnical Investigations and Analyses
 - Permit Applications
 - Surveying and Mapping
 - Hydrology and Hydraulics
 - Construction Bid Packages
 - Construction Specifications
 - Construction Bid Packages
 - Construction Observation and Monitoring
 - Construction Management
-

II. GENERAL EXPERIENCE AND CAPABILITIES

General Information

TRIAD is an engineering firm providing professional services in the areas of civil, environmental, mining, geotechnical and chemical engineering; environmental consulting; site assessment; land planning and landscape architecture; geology and hydrogeology; surveying and mapping; construction inspection and materials testing; and other related earth-science disciplines. Our firm has provided services on many thousands of projects of varying size and complexity since beginning operations in 1975. Clients include mining and industrial companies, federal, state and local governmental agencies, contractors, architects, engineers, developers, owners and commercial organizations.

TRIAD was founded in 1975 in Morgantown, West Virginia (WV) by three civil engineers from West Virginia University. A second office was opened in Charleston, WV in 1979 and later relocated to our present St. Albans, WV location. TRIAD expanded into the northern Virginia (VA) area in 1989 with offices in Winchester and Harrisonburg, VA, and began operations in Pennsylvania in 1990 with a full-service office in Greensburg. Most recently, TRIAD has opened offices in Hagerstown, Maryland and Ashburn, Virginia.

Facilities and equipment available to support our staff have grown substantially during the past 35 years. Each of our offices contains secure computer networks utilized for hydrogeologic evaluations, risk assessment, stability analyses, survey data reduction, mapping and site design. Our computer-based drafting and reproduction facilities are used to develop detailed site plans (monochrome or color), construction details, and other graphic documentation as required for our projects. TRIAD's fleet of drilling rigs and support vehicles are based in our WV offices and are maintained in-house to meet the needs of our engineering and site assessment projects. Well equipped, modern state-of-the-art materials testing laboratories are also maintained at our offices to support our engineering and construction-related projects. Standard 35-mm photography and digital cameras are used to document the stages of our projects.

TRIAD currently employs a staff of more than 200 professionals in its six office locations. Our personnel include chemical, civil, environmental, geotechnical and mining engineers, as well as geologists and hydrogeologists, biologists, chemists, environmental scientists, planners, landscape architects, natural resource specialists, regulatory compliance specialists, permitting engineers, risk assessors and health and safety specialists. Our technical support staff includes designers, draftsmen, surveyors, technicians, drillers, construction inspectors, and other corporate and clerical personnel. Most of our professional and technical staff has been with the company for many years - we pride ourselves on a very low turnover rate, which adds to continuity and enhances the level of productivity and experience afforded by TRIAD.

Surveying and Mapping

TRIAD has completed numerous mapping projects since our inception in 1975. These projects have included performing ground control for aerial mapping, field mapping of specific sites and/or obscured areas, and field mapping of in-stream topography. TRIAD has performed topographic surveying and mapping and construction layout for large development projects as well as for major bridge/roadway projects under construction for the West Virginia Department of Transportation. TRIAD utilizes state-of-the-art tools and equipment including Global Positioning system base station and portable GPS HF radio receivers, as well as total station theodolites with electronic data collectors. Maps and plats are developed in either AutoCADD or Microstation format.

TRIAD maintains quality control by adherence to our Standard Operating Procedures Manual for Surveying. The document is continuously updated to stay abreast of new survey innovations and accuracy standards. All topographic map development is completed to the standards set forth by the National Map Accuracy Standards or other appropriate quality standards. MSHA and OSHA HAZWOPER-trained crews are also available for hazardous work environments.

As can be seen on Block 14 of the WVDEP/AML Consultant Confidential Qualification Questionnaire (CCQQ), TRIAD possess the most modern equipment available to perform surveying services to support the engineering design required for this project.

Subsurface Investigation

TRIAD currently maintains fifteen rotary drill rigs outfitted for geotechnical and environmental investigation work. All rigs and support trucks are outfitted for services which may be required on any project. Drilling equipment includes samplers, casing, drill rods, coring bits, piping, pumps and various drilling tools. Most of our rigs are mounted on ATV, tracked and 4WD carriers. Skid mounted rigs are also available to permit gaining access to difficult locations without the need for dozer assistance. Air purifying and supplied air respirators are maintained in-house for drilling programs involving burning refuse where concentrated levels of carbon monoxide may be encountered. Our drill crews, field geologists and support personnel have received OSHA and MSHA safety training for work on hazardous sites, and are certified monitoring well drillers. TRIAD employs a full time corporate safety officer responsible for ensuring the safety of our employees. TRIAD has performed drilling activities on an AML&R project where levels of CO were in excess of 1900 parts per million. Our drilling personnel are experienced in all phases of exploration work which may be required on this project.

Typical types of projects for which we have provided drilling services include:

- Highways, bridges and haulroads
 - Railways and sidings
 - Refuse piles
 - Burning refuse investigations
 - Dams and impoundments
 - Valley fills
 - Landslides
 - Subsidence investigations
 - Mine-related investigations
 - Coal preparation plants
 - Commercial and Residential structures
 - Pavement design and evaluations
 - Instrumental installation - groundwater monitoring wells & piezometers
 - Leaking underground storage tanks
 - Landfills
 - Hazardous waste investigations
-

Laboratory Services

Geotechnical testing and analysis has been a major discipline of TRIAD since our inception. In addition, we have facilities and equipment to perform various chemical and analytical testing. Fully-equipped geotechnical testing laboratories are maintained in both our Morgantown and St. Albans, WV offices. An outline of our in-house laboratory and field testing capabilities is as follows:

Geotechnical and Materials Testing services include:

- Moisture content determinations
- Grain size analyses
- Plastic limit determinations
- Liquid limit determinations
- Shrinkage limit
- Stake durability testing
- Shear strength determinations
- Consolidation characteristics
- Permeability testing
- Compaction testing
- Soundness testing
- Specific gravity determinations
- CBR determinations
- Unit weight determinations
- Chemical and Analytical Testing:
 - Soil Analysis
 - pH (field)
 - pH (lab)
- Water Analysis
 - Temperature
 - pH
 - Specific Conductance
 - Flow
 - Iron Content

Design Engineering and Contract Document Preparation

TRIAD has extensive experience in design engineering and preparation of construction contract drawings on projects for the WVDEP / AML&R, as well as similar projects for private concerns.

TRIAD professionals execute practical engineering and scientific solutions that balance science, aesthetics and jurisdictional requirements. With in-house staff providing related services aligned to project milestones, TRIAD can support a project from original survey through construction inspection. Our Professional Engineers are well-versed in the areas of civil design and stormwater management, as well as other disciplines, and are licensed in the states of West Virginia, Pennsylvania, Maryland, Virginia and Ohio, among others.

Design Engineering services provided by TRIAD include:

- Abandoned Mine Lands Reclamation
 - Roadway Improvement Plans
 - Commercial and Residential Site Development Plans
 - Rezoning and Master Development Plans
 - Construction Specifications
 - Stormwater Management Best Management Practices
 - Water Distribution System Design
 - Storm Drainage System Design
 - Sanitary Sewer Design
 - Hydrologic Studies
 - Land Use and Planning
 - NPDES Plans and Permitting
 - Residential Subdivision Development Plans
-

Construction Monitoring and Inspection

Construction monitoring services provided by TRIAD include soil, concrete, aggregate, asphalt, steel, welding and paint. TRIAD maintains a staff of engineering technicians who are certified by state-specific highway and materials departments, ACI, FAA, and others. Senior level technicians are skilled in interpreting design drawings as well as typical construction inspection and testing. Services provided on these projects have included: testing of compacted fill with a nuclear moisture density gauge, documentation of construction personnel hours and equipment utilized, quantity determinations, submittal of daily and weekly reports, interpretation of technical specifications, inspection of liner installation, and construction recommendations. TRIAD also routinely provides technicians with OSHA and/or MSHA certifications.

Construction Monitoring and Inspection services include:

- Quantity Estimates and Verification
 - Inspection of Deep Foundations, including Driven Piles, Caissons and Auger Cast Piles
 - Footing Inspection and Bearing Capacity Evaluation
 - Field Concrete Testing and Sampling, including Coring, Windsor Probe and Rebound Hammer Testing
 - Batch Plant Inspection
 - Steel Inspection, including Bolt Torque
 - Visual Weld Inspection, and Dye Testing
 - Penetrant Testing
 - Paint Thickness (Wet and Dry Film)
 - Water Testing, including pH, Iron, and Turbidity
 - Fireproofing Inspection
 - Floor Flatness Testing
 - In-place Density Testing
 - Grade Checking
 - Nuclear Moisture Density Gauge Testing
-

III. CORPORATE SPECIALIZED EXPERIENCE

TRIAD has provided a wide range of services on mining and coal-related projects since the firm began operations more than thirty years ago. With this extensive experience in geotechnical, civil and design engineering and contract document preparation, we are expertly qualified to provide these services for the abatement of problems arising from abandoned mine lands. We maintain in-house expertise and capabilities for all phases of the abandoned mine lands program which require services in geotechnical and design engineering, surveying and mapping, subsurface investigation, drilling, testing, construction drawings and specifications, contract document preparation, and other related technical and administrative duties associated with the successful completion of a design / construction project.

IV. MANAGEMENT PLAN, LOCATION OF FACILITIES & WORK LOAD

MANAGEMENT PLAN

Resource Allocation & Location of Facilities:

As indicated in other sections of this response, TRIAD has the staff, equipment and other resources to complete most AML&R projects totally in-house. The location of our offices and laboratories in Morgantown and St. Albans gives us ready access to both the northern and southern coalfields of WV. Our professional staff have extensive experience on AML&R, or similar design projects, and is well-qualified to perform the work. If awarded this project, we are committed to allocating the personnel and resources required to complete the work in a timely, competent and cost-effective manner.

Management and Project Team Organization:

TRIAD's Project Manager (PM), Mr. Harold W. "Chip" Chambers, will be responsible for the overall management of the project. Upon award, Mr. Chambers will schedule a site visit with the AML&R Project Manager to review the work requirements and prepare a work plan for review. Our PM will also meet with AML&R personnel, as required, to develop a complete understanding of the work directive and to answer any questions concerning the proposed work approach. The PM will review the project requirements and assign team members and allocate resources needed for timely completion of the project.

Upon receipt of authorization to proceed with a project, Mr. Chambers will be responsible for daily execution and coordination of all phases of the project, including the supervision of other staff members working on the project and coordination of all field and laboratory activities. Mr. Chambers will also be responsible for maintaining liaison with AML&R personnel and, when required, issue periodic progress reports.

As the project progresses, our PM will periodically meet with the AML&R personnel to review progress, discuss any problems, and evaluate various corrective alternatives as needed. Input from AML&R personnel will be actively solicited on each phase of the project.

Schedule and Budget Control:

TRIAD's PM will be responsible for monitoring and controlling project schedules and budget. As the work progresses, Mr. Chambers will evaluate progress on a weekly basis and compare the progress to the established work schedule. If these reviews indicate a schedule problem is developing, he will meet with our personnel to discuss the problem and explore options for correcting the situation. If circumstances develop that will make it impossible to maintain the original schedule, AML&R personnel will be immediately informed and a mutually satisfactory schedule adjustment will be made.

Personnel time and expense charges are maintained and allocated to projects on a weekly basis using our automated desktop accounting and project management software (Axium). Using this data with knowledge of exploration, testing and subcontractor costs, Mr. Chambers will review project budget status on a weekly basis. The percentage of work completed will be compared to the percent of costs incurred in order to quickly identify any budget problems which may develop. If potential budget problems are identified, they will be evaluated by the PM. If measures to eliminate potential cost overruns cannot be eliminated, AML&R personnel will be immediately informed of the problems and causes. A mutually agreeable budget will be prepared or the scope of work will be revised to conform to the original budget, based on the nature of the problem.

WORK APPROACH

Work Directive and Initial Planning:

Upon notice to proceed, Mr. Chambers will review the work directive, discuss the project with AML&R personnel, and visit the site to become familiar with the project and work requirements. Available site information and data, such as results of previous borings, geologic reports or old mine maps will be reviewed. Based on this information, the PM will plan the scope of work including the subsurface investigation, surveying, engineering design and plan / specification development.

Surveying and Mapping:

Prior to undertaking any surveying, Mr. Chambers will work with our surveying staff to determine the extent and required accuracy of the work involved. We will then determine if existing mapping such as U.S.G.S., Corps of Engineers, Highway Department, or other utility mapping is available for the area. Should satisfactory existing mapping be available, we will utilize this (along with such location or "fill-in" surveys as are necessary) in order to minimize the project cost.

Subsurface Investigation:

Mr. Chambers will work with our drilling manager, Mr. Bill Gardner, to determine the best-suited equipment, personnel, and access routes for drilling so that work can begin as quickly as possible. The results and progress of the drilling work will be monitored on a continuing basis by the PM to determine that the needed information is being obtained. When necessary, the drilling program will be revised as it progresses to account for unanticipated conditions. In addition, needs for specialized drilling procedures, observation wells, slope inclinometers, piezometers, angle borings, hand sampling techniques, etc. will be evaluated by Mr. Chambers and Mr. Gardner.

Laboratory Testing:

Testing requirements for the project will be developed by our PM or a designated member of the project team. Since practically all of the testing will be performed in-house, the results can and will be evaluated on an on-going basis. This will permit us to eliminate unneeded tests before they are performed and to revise the testing program to better provide data which will be useful for project evaluation and design.

Design Development Report:

After the field and laboratory investigations are complete, an engineering report will be prepared and submitted to the WVDEP for review and comment. The report will contain:

1. Project description
2. Boring location plan and topographic mapping
3. Boring logs
4. Description of subsurface conditions including soil, bedrock and groundwater
5. Laboratory test results
6. Recommended alternative(s)
7. Special recommendations such as potential environmental effects of the design, damage to adjacent property , loss of use, and future effects.

After review and approval, TRIAD will proceed with preparation of all necessary construction documents including Drawings, Specifications and a Detailed Cost Estimate.

Design Drawings and Specifications:

Design drawings and specifications will be prepared to meet the site-specific criteria for the project. The drawings will accurately reflect the site conditions and depict the proposed work in a clear and understandable manner. The drawing packages will, as a minimum, include site plans, cross sections and details as necessary to define the scope of work. Detailed technical specifications will be prepared for general working conditions as well as each work item. The specifications will be the contractor's guide to the work and will set the guidelines for quality and materials to be used in the construction. All work will be reviewed and certified by Mr. Robert M. Hare, P.E., or one of our other WV-registered Professional Engineers (P.E.).

Construction Cost Estimate:

Upon completion of the final construction plans and specifications, the expected cost of the work will again be evaluated. This cost evaluation will be made using unit cost data from various sources (i.e. previous bids on similar projects, information solicited from contractors, Department of Highways, construction cost data, etc.). The final cost estimate will be discussed with AML&R personnel and, whenever necessary, revisions to the plans and specifications will be made to bring the estimated costs in line with the project budget. We expect to coordinate our efforts with the WVDEP throughout the project so that the need for final revisions will be minimized.

Project Meetings:

Our PM and engineers will meet with AML&R representatives on an as-needed basis during the planning and design phases of the project to assure an understanding of the work scope for that project and to keep the WVDEP informed of our progress and results. Upon completion of the design phase, our personnel will be available to attend pre-bid and pre-construction meetings to answer questions concerning the design and clarify the intent of the drawings and specifications.

QA/QC Construction Monitoring

Project team personnel will also be available to make periodic inspections during construction and to make a final inspection upon completion of construction. Summary reports of our inspections will be prepared and submitted to the WVDEP. These reports will summarize our observations of construction activities and progress and will indicate any problems which are observed. If construction problems or deficiencies are observed, recommended solutions will be presented in the inspection reports.

**West Virginia Department of Environmental Protection
Office of Abandoned Mine Lands and Reclamation
Completed Projects – 1992 to Present
Triad Engineering
St. Albans and Morgantown, West Virginia**

| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|----------------------------|---------------------------------------|------------------------------------|-------------------------------------------|
| 1 9 9 2 | Jim's Branch Refuse Piles | Wyoming Co. | Surveying, Mapping, CADD |
| | Newsome Branch Refuse | McDowell Co. | Surveying, Mapping, CADD |
| | Red Hollow Burning Refuse | Mercer Co. | Surveying, Mapping, CADD |
| | Turnhole Branch | McDowell Co. | Surveying, Mapping, CADD |
| | Newett (Crum) Burning Refuse | Logan Co. | Drilling & Sampling, Temperature Probes |
| | Campbell's Creek (Hodge) Landslide | Kanawha Co. | Drilling, Geotechnical Analyses |
| | Decota (Persinger) Landslide | Kanawha Co. | Drilling, Geotechnical Analyses |
| | Beckley (Long) Subsidence | Raleigh Co. | Drilling, Geotechnical Analyses |
| | Tuppers Creek (Turley) Drainage | Kanawha Co. | Drilling, Geotechnical Engineering |
| | Kelly's Creek Portals, Burning Refuse | Kanawha Co. | Surveying, Mapping, CADD |
| | Welch (Moore) Vertical Opening | McDowell Co. | Drilling, Engineering, Temperature Probes |
| | Milburn Burning Refuse | Kanawha Co. | Drilling, Surveying, Engineering |
| | Whitesville (Averson) AML | Boone Co. | Drilling & Sampling |
| | Kelly's Creek Road Burning Refuse | Kanawha Co. | Drilling, Surveying, Engineering |
| | Manila Creek (Bryant) Landslide | Putnam Co. | Drilling, Surveying, Engineering |
| | Hilltop (Logan) Subsidence | Fayette Co. | Drilling, Subsidence Investigation |
| | Taylorville (Garten) Drainage | Mingo Co. | Drilling & Sampling |
| | MacArthur Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Carbon (Williams) Burning Refuse | Kanawha Co. | Drilling & Sampling, Temperature Probes |
| | Davis Creek (Larabee) Subsidence | Kanawha Co. | Drilling, Subsidence Investigation |
| Chapmanville AML | Logan Co. | Drilling & Sampling | |
| Dry Branch Burning Refuse | Kanawha Co. | Drilling, Geologic Investigation | |
| Henline Subsidence | Harrison Co. | Drilling, Subsidence Investigation | |
| Pauley Burning Coal Seam | Kanawha Co. | Drilling, Subsidence Investigation | |

West Virginia Department of Environmental Protection
Office of Abandoned Mine Lands and Reclamation
Completed Projects – 1992 to Present
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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|------|------------------------------------|----------------|------------------------------------------------------|
| 1992 | Stevenski Subsidence | Marion Co. | Subsidence Investigation |
| | Albert Highway | Tucker Co. | Investigation, Design, Re-grade, Drainage, Portals |
| | A.S.&K. Bond Forfeiture | Monongalia Co. | Surface & Deep Mine Drainage Investigation |
| | F & M Coal | Preston Co. | Surveying, Mapping, CADD |
| | Moran Subsidence | Marion Co. | Subsidence Investigation |
| | Monongah (Mayo) subsidence | Marion Co. | Subsidence Investigation |
| | Mount Claire Refuse | Harrison Co. | Investigation and design, Refuse, Drainage, Re-grade |
| | Fairmont (Shipco) Subsidence | Marion Co. | Subsidence Investigation |
| | Farmington (Gum) Subsidence | Marion Co. | Subsidence Investigation |
| | Rivesville (Straight) Subsidence | Marion Co. | Subsidence Investigation |
| 1993 | Morgantown (Fox) Subsidence | Monongalia Co. | Subsidence Investigation |
| | Fairmont (Parks) Subsidence | Marion Co. | Subsidence Investigation |
| | Moundsville (Oliver) Subsidence | Marshall Co. | Subsidence Investigation |
| | Fairmont (Hines) Subsidence | Marion Co. | Subsidence Investigation |
| | Morgantown (McCabe) Subsidence | Monongalia Co. | Subsidence Investigation |
| | Ashland (Poca Land) Complex | McDowell Co. | Surveying, Mapping, CADD |
| | Helen (Lewis) Refuse | Raleigh Co. | Surveying, Mapping, CADD |
| | Minden Mine Dump | Fayette Co. | Surveying, Mapping, CADD |
| | Pageon Refuse Pile | McDowell Co. | Surveying, Mapping, CADD |
| | Eckman Refuse Pile | McDowell Co. | Surveying, Mapping, CADD |
| 3 | Micco (Elledge) Drainage | Mingo Co. | Drilling, Geotechnical Analyses, Surveying |
| | Big Creek "C" | Logan Co. | Drilling, Geotechnical Analyses |
| | MacArthur (Brush) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Davis Creek (Snodgrass) Subsidence | Kanawha Co. | Drilling, Subsidence Investigation |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|-----------------------------------|--------------------------------------|---------------------------------------------------|-------------------------------------------------|
| 1 9 9 3 | MacArthur (Kinsley) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Taylorville Drainage II | McDowell Co. | Drilling & Sampling, Engineering |
| | Elbert (Lane) | Mingo Co. | Drilling & Sampling |
| | Glen Morgan (Lilly) Subsidence | Boone Co. | Drilling, Subsidence Investigation |
| | Marrowbone Creek (Dingess) Landslide | Mingo Co. | Drilling & Sampling, Engineering |
| | Black Betsy (Adkins) Landslide | Putnam Co. | Drilling, Surveying, Engineering |
| | Chief Logan State Park Dam | Logan Co. | Drilling, Surveying & Mapping, Engineering CADD |
| | Apple Grove (Smith) Subsidence | Mason Co. | Drilling, Subsidence Investigation |
| | Logan Landslide | Logan Co. | Drilling & Sampling |
| | Midway (McVey) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Williamson Branch (Warren) Landslide | Mingo Co. | Drilling & Sampling |
| | Peter Street (McNeely) Drainage | Mingo Co. | Drilling & Sampling |
| | Hanover (Alley) | McDowell Co. | Drilling, Geologic Investigation |
| | Kilsyth (Burdette) Drainage | Raleigh Co. | Drilling & Sampling |
| | Crane Creek Drainage | Logan Co. | Surveying, Mapping, CADD |
| | Logan (Marcum) Drainage | Logan Co. | Drilling & Sampling |
| Chapmanville Landslide | Logan Co. | Drilling & Sampling | |
| Davis Creek (Oxley) Subsidence II | Kanawha Co. | Drilling & Sampling | |
| Follansbee (Martino) Subsidence | Brooke Co. | Subsidence Investigation | |
| Collier (Valero) Subsidence | Collier | Subsidence Investigation | |
| Phill Lane Subsidence | Harrison Co. | Subsidence Investigation and Stabilization Design | |
| Wheeling (Naegele) Subsidence | Wheeling | Subsidence Investigation | |
| Clarksburg (Siebert) Subsidence | Clarksburg | Subsidence Investigation | |
| Fairmont (Lawson) Subsidence | Fairmont | Subsidence Investigation | |
| Monongah Filtration Plant | Monongah | Emergency Subsidence Investigation | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|--------------------------------|-------------------------------------|----------------------------------------------------------------|--------------------------------------------------------|
| 1993 | Estes Landslide II | Harrison Co. | Geotechnical Investigation & Design, Slopes, Drainage |
| | Warsewich Subsidence | Morgantown | Subsidence Investigation |
| | Fairmont (Harmon) Subsidence | Fairmont | Subsidence Investigation |
| | Fairview (Toothman) Subsidence | Fairview | Subsidence Investigation |
| | Fairmont (Robinson) Subsidence | Fairmont | Subsidence Investigation |
| | Fairmont (Pizatella) Subsidence | Fairmont | Subsidence Investigation and Emergency Design |
| | Follansbee (Banfi) Subsidence | Follansbee | Subsidence Investigation |
| | Shinnston (Vincent) Subsidence | Shinnston | Subsidence Investigation |
| | Shinnston (Ours) Subsidence | Shinnston | Subsidence Investigation |
| | Brookhaven (Hearn) Subsidence | Brookhaven | Subsidence Investigation |
| | Fairmont (Cannon) Subsidence | Fairmont | Subsidence Investigation |
| | Canyon Road Refuse | Morgantown | Burning Refuse Remediation Design |
| | West Millford (Deverick) Landslide | Clarksburg | Investigation & Design, Geotechnical, Slopes, Drainage |
| | Fairview (Abel) Subsidence | Fairview | Subsidence Investigation |
| | Mannington (Hwakinberry) Subsidence | Fairview | Subsidence Investigation |
| | Shinnston (Vincent) Subsidence | Shinnston | Subsidence Investigation |
| | Fairmont (Knoll) Subsidence | Fairmont | Subsidence Investigation |
| | Clarksburg (Thompson) Subsidence | Clarksburg | Subsidence Investigation |
| | Shinnston (Hall) Subsidence | Shinnston | Subsidence Investigation |
| Clarksburg (Weekly) Subsidence | Clarksburg | Subsidence Investigation | |
| Colliers (Kiger) Subsidence | Colliers | Subsidence Investigation | |
| Philippi (Hansford) Subsidence | Philippi | Subsidence Investigation | |
| Whitman Flats | Randolph Co. | Investigation, Design, Drainage, Refuse Re-grade, Surface Mine | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|----------------------------|---------------------------------|------------------------------------|----------------------------------------|
| 1 9 9 4 | Marmet (Pauley) Landslide | Kanawha Co. | Drilling & Sampling, Engineering |
| | Rawl (Russel) Drainage | Mingo Co. | Surveying, Mapping, CADD |
| | Lefthand Fork (See) | Logan Co. | Surveying, Mapping, CADD |
| | Algoma Refuse Piles | McDowell Co. | Surveying, Mapping, CADD |
| | Lorado (Grimmett) Mine Drainage | Logan Co. | Surveying, Mapping, CADD |
| | Amherstdale (Carter) Landslide | Logan Co. | Surveying, Mapping, CADD |
| | Chauncey (Sammons) Drainage | Logan Co. | Drilling & Sampling |
| | Sophia (McKinney) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Beckley (Johnson) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Beckley (Wood) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Pratt (Crockshank) Landslide | Raleigh Co. | Drilling & Sampling |
| | Kirk (Caperton) Landslide | Mingo Co. | Drilling & Sampling, Engineering |
| | Crooked Creek Refuse | Logan Co. | Surveying & Mapping |
| | Branchland Landslide | Lincoln Co. | Drilling & Sampling |
| | Hanshew Subsidence | Kanawha Co. | Drilling, Subsidence Investigation |
| | Belle (Turner) Landslide | Kanawha Co. | Drilling, Surveying, Engineering, CADD |
| | Hugheson Monitoring Well | Kanawha Co. | Drilling, Well Installation |
| | Delbarton (Spence) Subsidence | Mingo Co. | Drilling, Subsidence Investigation |
| | Haynes Landslide | Kanawha Co. | Drilling & Sampling |
| | Campbell's Creek Landslide | Kanawha Co. | Drilling & Sampling |
| Shrewsbury Landslide | Kanawha Co. | Drilling & Sampling | |
| Thurmond Landslide | Fayette Co. | Drilling & Sampling | |
| Crab Orchard Subsidence | Raleigh Co. | Drilling, Subsidence Investigation | |
| Crooked Creek Coal Refuse | Logan Co. | Drilling, Engineering | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|--------------------------------|-----------------------------------|----------------------------------------------------|---------------------------------------------------|
| 1 9 9 4 | Campbell's Creek Subsidence | Kanawha Co. | Drilling & Sampling |
| | Latrobe (Gibson) Landslide | Logan Co. | Drilling & Sampling |
| | North Charleston (Toon) Landslide | Kanawha Co. | Surveying, Mapping, Drilling, Design |
| | Wilkinson Landslide | Kanawha Co. | Drilling, Surveying, Mapping, Design |
| | Sophia (Lucas) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Sophia (Lawrence) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Zickefoose Subsidence | Raleigh Co. | Drilling Subsidence Investigation |
| | Oak Hill (Huddleston) Subsidence | Oak Hill | Drilling, Subsidence Investigation |
| | Lumberport (Peterson) Subsidence | Lumberport | Subsidence Investigation |
| | Farmington (Hefner) Subsidence | Farmington | Subsidence Investigation |
| | Clarksburg (LeFevre) Subsidence | Clarksburg | Subsidence Investigation |
| | Fairmont (Hanne) Subsidence | Fairmont | Subsidence Investigation |
| | AML Surveying & Mapping | Various | Surveying & Mapping |
| | Moundsville (Frame) Subsidence | Moundsville | Subsidence Investigation |
| | Wheeling (Roshak) Subsidence | Wheeling | Subsidence Investigation |
| | Ida May (Heldreth) Subsidence | Ida May | Subsidence Investigation |
| | Mannington (Brinegar) Subsidence | Mannington | Subsidence Investigation |
| | Moundsville (Wolfe) Subsidence | Moundsville | Subsidence Investigation |
| | Follansbee (Turkaly) Subsidence | Follansbee | Subsidence Investigation and Stabilization Design |
| | Garrett Drainage | Preston Co. | Geotechnical Investigation for In-house Design |
| Fairmont (Tims) Subsidence | Fairmont | Subsidence Investigation | |
| Clarksburg (Walker) Subsidence | Clarksburg | Subsidence Investigation | |
| Clarksburg (Hall) Subsidence | Clarksburg | Subsidence Investigation | |
| Kanes Creek Refuse Pile | Preston Co. | Investigation & Design, Refuse, Drainage, Re-grade | |
| Windsor (Dawson) Subsidence | Windsor | Subsidence Investigation | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|----------------------------|-------------------------------------|---------------------------------------------------------------|----------------------------------------------|
| 1 9 9 4 | Wheeling (Scott) Subsidence | Wheeling | Subsidence Investigation |
| | Fairmont (Skaggs) Subsidence | Fairmont | Subsidence Investigation |
| | Harris Drainage | Clarksburg | Subsurface Investigation for In-house Design |
| | Weston Hospital AML | Weston | Deep Mine (Portal) Drainage Design |
| | Fairmont (Twyman) Subsidence | Fairmont | Subsidence Investigation |
| | Wheeling (Innocenti) Subsidence | Wheeling | Subsidence Investigation |
| | Fairmont (Brown) Subsidence | Fairmont | Subsidence Investigation |
| | Fairmont (Vincent) Subsidence | Fairmont | Subsidence Investigation |
| | Moundsville (Parento) Subsidence | Moundsville | Subsidence Investigation |
| | Follansbee (Mossor) Subsidence | Follansbee | Subsidence Investigation |
| | Wheeling (Shultz) Subsidence | Wheeling | Subsidence Investigation |
| | Wellsburg (Hubbard) Subsidence | Wellsburg | Subsidence Investigation |
| | Moundsville (Oelshalger) Subsidence | Moundsville | Subsidence Investigation |
| | Fairmont (Sterratt) Subsidence | Fairmont | Subsidence Investigation |
| | Wheeling (Sprowls) Subsidence | Wheeling | Subsidence Investigation |
| | Morgantown (Fox) Subsidence | Morgantown | Subsidence Investigation |
| | Farmington (Goodnight) Subsidence | Farmington | Subsidence Investigation |
| | Fairmont (Tichenor) Subsidence | Fairmont | Subsidence Investigation |
| | Fairmont (Ferrise) Subsidence | Fairmont | Subsidence Investigation |
| | Barrackville (Garlow) Subsidence | Barrackville | Subsidence Investigation |
| Kittle Flats | Randolph Co. | Investigation & Design, Re-grade, Surface Mine, Drainage, AMD | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|-----------------------------------|-----------------------------------|----------------------------------------------|-----------------------------------------------|
| 1 9 9 5 | Crab Orchard (Mullins) Subsidence | Raleigh Co. | Subsidence Investigation, Drilling |
| | Welch (Frezier) Subsidence | Welch | Subsidence Investigation, Drilling |
| | Logan (Browning) Landslide | Logan | Drilling, Surveying & Mapping, Engineering |
| | Holly Grove "A" Landslide | Kanawha Co. | Surveying, Mapping, CADD |
| | Big Cub Creek Refuse Pile | Wyoming Co. | Surveying, Mapping, CADD |
| | Blue Pennant Complex | Boone Co. | Surveying, Mapping, CADD |
| | Toler Hollow Portals | Wyoming Co. | Surveying, Mapping, CADD |
| | Rocklick (Beckett) Landslide | Boone Co. | Surveying, Mapping, CADD |
| | Indian Ridge Refuse Pile | Wyoming Co. | Surveying, Mapping, CADD |
| | New Haven (Collier) Subsidence | New Haven | Subsidence Investigation, Drilling |
| | Aracoma (Napier) Drainage | Logan | Drilling & Sampling |
| | Hansford Landslide | Crown Hill | Drilling & Sampling |
| | Padgett Subsidence | Whitman | Subsidence Investigation, Drilling |
| | Dry Branch Drainage | Kanawha Co. | Drilling & Sampling |
| | Lockhart Subsidence | War | Subsidence Investigation, Drilling |
| | Burning Refuse | Williamson | Drilling & Sampling |
| | Cannelton (Miller) Drainage | Fayette Co. | Drilling & Sampling |
| | Logan (Robinson) Drainage | Logan | Drilling, Engineering, Geologic Investigation |
| | Beckley (Colacino) Subsidence | Beckley | Subsidence Investigation, Drilling, Surveying |
| | Holly Grove "A" Landslide | Kanawha Co. | Drilling, Surveying & Mapping, Design |
| Campbell's Creek (Stone) Drainage | Kanawha Co. | Surveying & Mapping, Drilling | |
| Eccles (McGinnis) Subsidence | Eccles | Subsidence Investigation, Drilling | |
| Whitewater Branch Drainage | Nicholas Co. | Drilling & Sampling, Geologic Investigation | |
| Jim Branch (Tyree) Landslide | Boone Co. | Drilling & Sampling, Geologic Investigation | |
| Upper Decker's Creek | Preston Co. | Subsurface Investigation for In-house Design | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|------------------------------|-----------------------------------|------------------------------------|-------------------------------------------------------------------------------------------|
| 1 9 9 5 | Childs Highwall & Portals | Preston Co. | Investigation & Design, Re-grade, Surface Mine, Drainage, AMD |
| | Martin Creek | Preston Co. | Investigation & Design, Drainage, AMD, Re-grade, Surface & Deep Mine, Hazardous Materials |
| | AML Surveying & Mapping | Various | Surveying & Mapping, CADD |
| | Grant Town (Domico) Subsidence | Grant Town | Subsidence Investigation, Drilling |
| | Fairview (Toothman) Subsidence | Fairview | Subsidence Investigation, Drilling |
| | Wheeling (Stazenski) Subsidence | Wheeling | Subsidence Investigation, Drilling |
| | Moundsville (Feisz) Subsidence | Moundsville | Subsidence Investigation, Drilling |
| | Weirton (Tingler) Subsidence | Weirton | Subsidence Investigation, Drilling |
| | Monongah (Eller) Subsidence | Monongah | Subsidence Investigation, Drilling |
| | Steadman AMD | Monongalia Co. | Investigation & Design, Deep Mine, Drainage, AMD |
| | Morgantown (Cryster) Subsidence | Morgantown | Subsidence Investigation, Drilling |
| | Fairmont (Long) Subsidence | Fairmont | Subsidence Investigation, Drilling |
| | Kiser Subsidence Design | Marion Co. | Investigation & Design of Deep Mine Stabilization |
| | Fairmont (Kropog) Subsidence | Fairmont | Subsidence Investigation, Drilling |
| | Glen Dale (Goddard) Subsidence | Glen Dale | Subsidence Investigation, Drilling |
| | Buckhannon (Swecke) Subsidence | Buckhannon | Subsidence Investigation, Drilling |
| | Fairmont (King) Subsidence | Fairmont | Subsidence Investigation, Drilling |
| | Bolyard Well Bond Forfeiture Site | Preston Co. | Well Abandonment, Design & Performance |
| | Colliers (Stevens) Subsidence | Colliers | Subsidence Investigation, Drilling |
| | Wheeling (Hanna) Subsidence | Wheeling | Subsidence Investigation, Drilling |
| | Wheeling (Witsberger) Subsidence | Wheeling | Subsidence Investigation, Drilling |
| Fairmont (JHEK) Subsidence | Fairmont | Subsidence Investigation, Drilling | |
| Fairmont (Greene) Subsidence | Fairmont | Subsidence Investigation, Drilling | |
| Fairmont (Mercer) Subsidence | Fairmont | Subsidence Investigation, Drilling | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|--------------------------------------|-----------------------------------|-----------------------------------------------|-------------------------------------------------------------|
| 1 9 9 6 | Fairmont (Bionti) Subsidence | Fairmont | Subsidence Investigation, Drilling |
| | Thomas (Bible) Subsidence | Thomas | Subsidence Investigation, Drilling |
| | Thomas (Simmons) Subsidence | Thomas | Subsidence Investigation, Drilling |
| | Thomas (Rhodes) Subsidence | Thomas | Subsidence Investigation, Drilling |
| | Fairmont (Crowe) Subsidence | Fairmont | Subsidence Investigation, Drilling |
| | Bland (AML) | Monongalia Co. | Subsurface Investigation, Geotechnical, Drainage, Deep Mine |
| | Commodore (AML) | Monongalia Co. | Subsurface Investigation, Geotechnical, Drainage, Deep Mine |
| | Stephenson (Mills) Subsidence | Wyoming Co. | Subsidence Investigation, Drilling |
| | Cedar Grove (Ramsey) Landslide | Kanawha Co. | Subsurface Investigation, Drilling, Geologic Investigation |
| | Logan (Ross) Landslide | Logan | Engineering, Drilling |
| | Beckley (Davis) Subsidence | Raleigh Co. | Subsidence Investigation, Drilling |
| | Oak Hill (Slates) Subsidence II | Oak Hill | Subsidence Investigation, Drilling |
| | Weich (Coleman) Subsidence | Weich | Subsidence Investigation, Drilling |
| | Black Wolfe Refuse Pile | McDowell Co. | Surveying & Mapping, CADD |
| | Shannon Branch Refuse Pile | McDowell Co. | Surveying & Mapping, CADD |
| | Lower Burning Creek Complex | Mingo Co. | Surveying & Mapping, CADD |
| | Duo Refuse Piles | Greenbrier Co. | Surveying & Mapping, CADD |
| | Mullins Landslide | Wyoming Co. | Drilling, Surveying, Engineering |
| | Crab Orchard (Mullins) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Williamson (Brown) Landslide | Williamson | Drilling & Sampling |
| Thaxton Landslide II | Kanawha Co. | Drilling, Engineering, Geologic Investigation | |
| Dingess Street (Jemerison) Landslide | Logan | Drilling & Sampling | |
| Cedar Grove (Bass) Landslide | Kanawha Co. | Drilling, Surveying, Engineering | |
| Campbell's Creek (Stone) Drainage | Kanawha Co. | Surveying & Mapping | |
| Crab Orchard (Zickafoose II) | Raleigh Co. | Drilling & Sampling | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|------------------------------|-----------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------|
| 1 9 9 6 | Glen Jean Subsidence | Glen Jean | Drilling, Subsidence Investigation |
| | MacArthur (Green) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | East Oak Hill (Tincher) Subsidence | Oak Hill | Drilling, Subsidence Investigation, Engineering |
| | Football Stadium Subsidence | Mt. Hope | Drilling, Surveying, Engineering |
| | Shrewsbury (Burgess) Landslide | Kanawha Co. | Drilling, Surveying, Engineering |
| | Clarksburg (McGinnis) Subsidence | Clarksburg | Drilling, Subsidence Investigation |
| | Fairmont (Retton) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| | Fairmont (Golden) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| | Wheeling (Zambito) Subsidence | Wheeling | Drilling, Subsidence Investigation |
| | Wellsburg (Fillinger) Subsidence | Wellsburg | Drilling, Subsidence Investigation |
| | MeMechen (Schmitt) Subsidence | Moundsville | Drilling, Subsidence Investigation |
| | Stillhouse Run Refuse | Galloway | Investigation, Design, Refuse Re-grade, Drainage |
| | Wellsburg (Ohler) Subsidence | Wellsburg | Drilling, Subsidence Investigation |
| | Gypsy (Abruzzino) Drilling | Gypsy | Subsurface Investigation for In-house Design |
| | Fairmont (Levine) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| | Wayne Shreve Portals | Harrison Co. | Investigation, Design, Drainage, Portals, Deep Mine, AMD |
| | Pumpkintown, Kingsville, & Mabie Waterline Feasibility Study | Randolph Co. | Feasibility Study, Deep Mine, Surface Mines, Water Lines, AMD Contamination |
| | AML Surveying & Mapping | Various | Surveying & Mapping, CADD |
| | Fairmont (Cross) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| | Fairmont (Delovich) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| | Fairmont (Orisini) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| Morgantown (Amos) Subsidence | Morgantown | Drilling, Subsidence Investigation | |
| Karickhoff Mine Drainage | Monongalia Co. | Subsurface Investigation for In-house Design | |
| Fairmont (Danko) Subsidence | Fairmont | Drilling, Subsidence Investigation | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|-------------|----------------------------------------|-----------------|-----------------------------------------------|
| 1 | Fairmont (Bosley) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| 9 | Fairmont (Neely) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| 9 | Thomas (Heasley) Subsidence | Thomas | Drilling, Subsidence Investigation |
| 9 | Thomas (Paugh) Subsidence | Thomas | Drilling, Subsidence Investigation |
| 6 | Fairmont (Pitsy) Landslide | Fairmont | Drilling, Subsidence Investigation |
| | Turkey Run Slide & Drainage | Upshur Co. | Subsurface Investigation for In-house Design |
| | Tunnelton (Myers) Subsidence | Tunnelton | Drilling, Subsidence Investigation |
| | Fairview (Weaver) Subsidence | Fairview | Drilling, Subsidence Investigation |
| | Monongah (Longfellow) Subsidence | Monongah | Drilling, Subsidence Investigation |
| | Fairmont (Kiser) Confirmation Drilling | Fairmont | Confirmation of Deep Mine Stabilization |
| 1 | Pine Bluff Tipple and Portal | Harrison Co. | Subsurface Investigation for In-house Design |
| 9 | Thomas (Uchic) Subsidence | Thomas | Drilling, Subsidence Investigation |
| 9 | Rivesville (Miller) Subsidence | Rivesville | Drilling, Subsidence Investigation |
| 9 | Fairmont (Christ Temple) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| 7 | Fairmont (Dukich) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| | AML Surveying and Mapping | Various | Surveying & Mapping, CADD |
| | Fairmont (Renner) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| | Hiawatha Mine Dump | Hiawatha | Surveying & Mapping, CADD |
| | Booths Hollow Highwall | Bramwell | Surveying & Mapping, CADD |
| | Turkey Wallow Refuse Pile | Wolf Pen | Surveying & Mapping, CADD |
| | Sophia (Hayworth) Subsidence | Sophia | Drilling, Subsidence Investigation |
| | Dan's Branch (Cline) Landslide | Williamson | Drilling, Engineering, Geologic Investigation |
| | Spring Branch Burning Refuse | Milburn | Surveying & Mapping, CADD |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|----------------------------------|---------------------------------------|-------------------------------------|------------------------------------------------------|
| 1 9 9 7 | Whitby (Lilly) Clogged Stream/Portals | Whitby | Surveying & Mapping, CADD |
| | Ennis Complex | Maybeury | Surveying & Mapping, CADD |
| | Carswell Hollow (Smith) Refuse | Kimball | Surveying & Mapping, CADD |
| | MacArthur (Kinsley) Vertical Opening | MacArthur | Drilling, Subsidence Investigation |
| | Stanaford (Vira) Subsidence | Beckley | Drilling, Subsidence Investigation |
| | Logan AML | Logan | Drilling & Sampling |
| | Norton Waterline | Randolph Co. | Surveying, Mapping, Subsurface Investigation, Design |
| | Kelly's Creek (Jones) Landslide | Kanawha Co. | Drilling, Surveying & Mapping, Engineering |
| | Crab Orchard (Rye) Subsidence | Raleigh Co. | Drilling, Subsidence Investigation |
| | Marmet (Willis Drive) Landslide | Marmet | Drilling & Sampling |
| | Peter Street (Bragg) Landslide | Williamson | Drilling, Engineering, Geologic Investigation |
| | Pinnacle Creek Refuse Pile | Wyoming Co. | Drilling, Surveying, Engineering |
| | Clarksburg (Felts) Subsidence | Clarksburg | Drilling, Subsidence Investigation |
| | Fairmont (Tibbs) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| | Farmington (Tassone) Subsidence | Farmington | Drilling, Subsidence Investigation |
| | Fairmont (Morgan) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| | Farmington (Knoble) Subsidence | Farmington | Drilling, Subsidence Investigation |
| | Shinnston (Bell) Subsidence | Shinnston | Drilling, Subsidence Investigation |
| | Zickefoose Burning Refuse | Marion Co. | Subsurface Investigation for In-house Design |
| | Thomas (D. Bacco) Subsidence | Thomas | Drilling, Subsidence Investigation |
| Thomas (Nelson) Subsidence | Thomas | Drilling, Subsidence Investigation | |
| Thomas (Shoemaker) Subsidence | Thomas | Drilling, Subsidence Investigation | |
| Thomas (Nelson) Subsidence | Thomas | Drilling, Subsidence Investigation | |
| Fairmont (St. Joseph) Subsidence | Fairmont | Emergency, Subsidence Investigation | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|--------------------------------|---------------------------------------|------------------------------------|---------------------------------------------------------|
| 1 9 9 7 | Thomas (Lambert) Subsidence | Thomas | Drilling, Subsidence Investigation |
| | Left Fork of Little Sandy Reclamation | Preston Co. | Investigation, Design, Portals, Drainage, AMD, Re-grade |
| | Demarco Mine Drainage | Monongalia Co. | Subsurface Investigation for In-house Design |
| | Summit Park (Seftick) Slide | Clarksburg | Investigation and Design, Slopes, Drainage, Deep Mine |
| | Thomas (Stanley) Subsidence | Thomas | Drilling, Subsidence Investigation |
| | Morgantown (Horrell) Subsidence | Morgantown | Drilling, Subsidence Investigation |
| | Morgantown (Malone) Subsidence | Morgantown | Drilling, Subsidence Investigation |
| | Core (Swiger) Subsidence | Core | Drilling, Subsidence Investigation |
| | Shinnston (Brown) Landslide | Shinnston | Subsurface Investigation for In-house Design |
| | Delmar Complex | Monongalia Co | Subsurface Investigation for In-house Design |
| | Morgantown (McVickers) Subsidence | Morgantown | Drilling, Subsidence Investigation |
| | Moundsville (Marling) Subsidence | Moundsville | Drilling, Subsidence Investigation |
| | Wheeling (Tridigo) Subsidence | Wheeling | Drilling, Subsidence Investigation |
| | Barrickville (Vennis) Subsidence | Barrickville | Drilling, Subsidence Investigation |
| | Clarksburg (Ray) Subsidence | Clarksburg | Drilling, Subsidence Investigation |
| | Fairmont (Toothman) Subsidence | Fairmont | Drilling, Subsidence Investigation |
| Grant Town (Haller) Subsidence | Grant Town | Drilling, Subsidence Investigation | |
| Monongah (Dumas) Subsidence | Monongah | Drilling, Subsidence Investigation | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|------------------------------------|----------------------------------|------------------------------------|-----------------------------------------------|
| 1 9 9 8 | Chauncey (Vance) Drainage | Logan Co. | Drilling, Surveying, Engineering |
| | Skin Creek Refuse Pile | Wyoming Co. | Surveying & Mapping, CADD |
| | Riffe Branch Impoundment | Raleigh Co. | Surveying & Mapping, CADD |
| | Holden (Paggett) Landslide | Holden | Drilling, Surveying, Engineering |
| | Sycamore Camp Subsidence | Holden | Drilling, Engineering |
| | Gerath Landslide | Weston | Surveying & Mapping, CADD |
| | Carswell Hollow Design | McDowell Co. | Drilling, Engineering, CADD |
| | Spruce Laurel Fork | Clothier | Drilling, Surveying, Engineering |
| | Red Jacket Refuse | Mingo Co. | Subsurface Investigation |
| | Nitro (Taylor) Landslide | Nitro | Drilling, Engineering |
| | Georges Creek (Holmes) Landslide | Rand | Drilling, Engineering |
| | Dog Hollow AML | Boone Co. | Drilling & Sampling |
| | Adkins Drainage | Boone Co. | Drilling & Sampling, Geologic Investigation |
| | Rumble (Smith) Drainage | Rumble | Drilling, Engineering, Geologic Investigation |
| | MacArthur AML | Raleigh Co. | Drilling & Sampling |
| | Chief Logan AMD | Logan Co. | Drilling, Surveying, Design, Engineering |
| | Davis Creek Emergency AML | Kanawha Co. | Drilling, Surveying, Design, Engineering |
| | Holden Drainage | Holden | Drilling, Engineering |
| | Bloomingrose (Milam) Drainage | Bloomingrose | Drilling, Surveying, Engineering |
| | Webster (Jerryville) AML | Webster Co. | Drilling & Sampling |
| Thompson Gas Complaint | Williamson | Drilling & Sampling | |
| Glasgow Subsidence | Glasgow | Drilling, Subsidence Investigation | |
| AML Surveying & Mapping | Various | Surveying & Mapping, CADD | |
| Wheeling (Upper Stroch) Subsidence | Wheeling | Drilling, Subsidence Investigation | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|---------------------------------|-------------------------------------|--------------------------------------|----------------------------------------------|
| 1 9 9 9 | Clarksburg (Post) Subsidence | Clarksburg | Drilling, Subsidence Investigation |
| | Thomas United Methodist Church | Thomas | Drilling, Subsidence Investigation |
| | Bridge Run Refuse | Upshur Co. | Geotechnical Investigation & Evaluation |
| | Kanes Creek South | Preston Co. | Reclamation Design |
| | Riffe Refuse Pile | Raleigh Co. | Drilling & Sampling, Temperature Probes |
| | Turkey Gap Burning Refuse | Oak Hill | Surveying & Mapping, CADD |
| | Hotcoal Mine Dump | Raleigh Co. | Surveying & Mapping, CADD |
| | Laurel Creek Subdivision Subsidence | Raleigh Co. | Surveying & Mapping, CADD |
| | Kelly's Creek Burning Refuse | Kanawha Co. | Drilling & Sampling |
| | WV Tech Tennis Courts | Montgomery | Drilling, Surveying, Engineering |
| | Holden (Alshire) AML Slide | Holden | Drilling, Surveying, Engineering |
| | Ragland (Kirk) Subsidence | Ragland | Drilling, Subsidence Investigation |
| | Beckley Exhibition Coal Mine | Beckley | Surveying & Mapping, CADD |
| | Kilsyth Drainage | Kilsyth | Drilling, Surveying, Engineering, Design |
| | Borderland Portals | Mingo Co. | Drilling & Sampling, Piezometer Installation |
| | Dille-Widen Feasibility Study | Clay Co. | Engineering, Geology, Hydrology |
| Mullens Water Feasibility Study | Mullens | Engineering, Geology, Hydrology | |
| Mileground Stabilization | Morgantown | Stabilization Investigation & Design | |
| Tunnelton Mine Drainage | Tunnelton | AMD Drainage Investigation | |
| AML Surveying and Mapping | Various | Surveying & Mapping, CADD | |
| Brown Street Drainage | Marshall Co. | AMD Drainage Design | |
| Davis (Warren) Subsidence | Davis | Drilling, Subsidence Investigation | |
| Turkey Run III | Upshur Co. | Drainage/Landslide Investigation | |
| Benwood Refuse | Marshall Co. | Refuse Investigation | |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|-----------------------------------------------|----------------------------------------|----------------------|---------------------------------------------------------------|
| 2000 | Shinnston (Wentz) Subsidence | Shinnston | Drilling, Subsidence Investigation |
| | Kingwood 52/6 Project | Kingwood | Water Line Feasibility Study |
| | Van Burning Refuse | Van | Drilling & Sampling, Temperature Probes |
| | Witcher Creek (Evans) Portals | Kanawha Co. | Surveying & Mapping, CADD |
| | Newton (Hatfield) Landslide | Mingo Co. | Surveying & Mapping, CADD |
| | Northfork Refuse Pile | McDowell Co. | Surveying & Mapping, CADD |
| | Red Jacket Portal | Mingo Co. | Surveying & Mapping, CADD |
| | Matoka (WV Rt. 10) Subsidence | Matoka | Drilling & Sampling, Geologic Investigation |
| | Montgomery (Grey) Landslide | Montgomery | Drilling & Sampling, Geologic Investigation |
| | Davis Water Tanks | Davis | Subsidence Investigation, Drilling |
| | Kingsville Water Line | Kingsville | Water Line Feasibility Study |
| | AML Surveying & Mapping | Various | Surveying & Mapping, CADD |
| | Horner Run Portal, Highway & Landslide | Harrison Co. | Portal, Highway & Landslide Investigation, Remediation Design |
| | 2001 | Clarksburg Landslide | Clarksburg |
| North 8 th Street Refuse & Portals | | Warwood | Design, Re-grade & Drainage |
| Livengood Highway & AMD | | Preston Co. | Design, Re-grade & Drainage |
| Layton Mine Drainage | | Harrison Co. | Drainage, Slope Investigation |
| Rocklick (Blethem) Drainage | | Minden | Drilling & Sampling, Geologic Investigation |
| Leslie (Nelson) Drainage | | Greenbrier Co. | Surveying & Mapping, CADD |
| Mullins Mine Drainage | | Mingo Co. | Drilling & Sampling |
| North Matewan (Gooslin) Landslide | | Matewan | Drilling, Surveying, Engineering |
| Helen Mine Drainage | | Raleigh Co. | Drilling, Surveying, Engineering |
| Newton (Hatfield) Landslide | | Mingo Co. | Drilling, Surveying, Engineering |
| Prong Fork (Hughart) Landslide | | Kanawha Co. | Drilling, Surveying, Engineering |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|--------------------------------|-----------------------------------|-------------------------------|-----------------------------------------------------------|
| 2003 | Thomas (Wolfe Welding) Subsidence | Tucker Co. | Drilling & Sampling, Subsidence Investigation |
| | Duffy Street/Van Rufus Subsidence | Shinnston | Reclamation Design |
| | Brownston Landslide | Barbour Co. | Reclamation Design |
| | Clarksburg (A. Davis) Subsidence | Clarksburg | Drilling & Sampling, Subsidence Investigation |
| | Mt. Clare (Strader) Landslide | Harrison Co. | Drilling & Sampling, Subsidence Investigation |
| | White Park Bus Garage PCB Site | Monongalia Co. | Environmental Investigation |
| | White Park | Monongalia Co. | Environmental Investigation |
| | Collins Ferry Road B.P. Station | Monongalia Co. | Drilling & Sampling |
| | Bull Run Emergency Drilling | Preston Co. | Drilling & Sampling |
| | Enterprise (Swiger) Subsidence | Harrison Co. | Drilling & Sampling |
| | Saul's Run Strip and Slide | Lewis Co. | Drilling & Sampling, Subsidence Investigation |
| | Whitehair Landslide | Monongalia Co. | Landslide Investigation, Drilling & Sampling, Engineering |
| | Ragland (Caudill) Subsidence | Mingo Co. | Landslide Investigation, Drilling & Sampling, Engineering |
| | WVU Tech Drainage | Montgomery | Drilling & Sampling, Subsidence Investigation |
| | 2004 | Ring Hollow (Meadows) Portals | Herrshaw |
| Coal Hollow Refuse "A" | | Putnam Co. | Drilling & Sampling, Piezometer Installation |
| DNR Office Subsidence | | Beckley | Design, Refuse, Re-grade, Portals |
| Alsbaugh Landslide | | Mount Hope | Drilling & Sampling, Subsidence Investigation |
| Mon County (Rockley Road) | | Monongalia Co. | Drilling & Sampling, Geologic Investigation |
| Long Run (Adkins) Landslide | | Taylor Co. | Drilling & Sampling, Geotechnical Investigation |
| Hawkins AMD | | Lambert Run | Landslide & Subsidence Investigation, Drilling & Sampling |
| Jimtown Tipple | | Harrison Co. | AMD/Reclamation |
| Ven Runs Landslide Maintenance | | Lewis Co. | Subsurface Investigation, Slide Repair |
| | | | Subsurface Investigation, Slide Repair |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
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| 2005 | Blankenship Subsidence | Beckley | Drilling & Sampling, Subsidence Investigation |
| | Mabscott (Houck) Subsidence | Mabscott | Drilling & Sampling, Subsidence Investigation |
| | Spicer Subsidence | Maidsville | Drilling & Sampling, Subsidence Investigation |
| | Everettsville Burning Refuse | Monongalia Co. | Drilling, Geotechnical Investigation |
| | Union Prong (Carpenter) LS Project | Kanawha Co. | Drilling & Sampling, Piezometer Installation, Well Abandonment |
| | Rawl (Pigman) Portals | Mingo Co. | Drilling & Sampling, Piezometer Installation |
| | Whitman (Williams) Drainage | Logan Co. | Drilling & Sampling, Piezometer Installation |
| | Varney (Justice) Drainage | Mingo Co. | Drilling & Sampling, Piezometer Installation |
| | Brounland (Holstein) Drainage | Kanawha Co. | Drilling & Sampling, Piezometer Installation |
| | Musick (Brewer) Subsidence | Mingo Co. | Drilling & Sampling, Piezometer Installation |
| | Elk Creek Portals | Mingo Co. | Design, Surveying & Mapping, Portals, Re-grade, Section 404 |
| | Chapmanville (Henry) Portals/Lake (Winkler) LS/Stone Branch (Adkins) LS 1/Mud Fork (Baisden) | Logan Co. | Drilling & Sampling, Piezometer Installation |
| | Rumble (Stevens) Refuse & Portals | Boone Co. | Design, Surveying & Mapping, Portals, Re-grade, Section 404 |
| | Campbells Creek (Miller) Drainage | Kanawha Co. | Permit, Demolition of Structures |
| | Rich Fork (Spells) Portals | Kanawha Co. | Drilling & Sampling, Piezometer Installation |
| | Mullens Portals | Wyoming Co. | Drilling & Sampling, Piezometer Installation |
| | Belington Portals & Drainage | Barbour Co. | Design, Drilling & Sampling, Piezometer Installation, Surveying & Mapping, Portals, Re-grade, Dewatering |
| | Beckley (St. John's) Subsidence | Raleigh Co. | Design, Drilling & Sampling, Piezometer Installation, Surveying & Mapping, Portals, Re-grade, Dewatering |
| | | | Drilling & Sampling, Mining Determination |

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| YEAR | PROJECT NAME | LOCATION | SERVICES PROVIDED |
|------|-----------------------------------|-------------|--------------------------------------------------------------------------------------------------------|
| 2010 | Chauncey (Miller) Drainage | Logan Co. | Drilling & Sampling, Mining Determination |
| | Morris Creek (Jackson) Drainage | Fayette Co. | Drilling & Sampling, Mining Determination |
| | Little Laurel Run Highwall Design | Preston Co. | Engineering Design, Portals, Re-grade, Demolition of Structures, Refuse, Drainage, Surveying & Mapping |
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RFQ No. DEP15065

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

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

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

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

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: TRIAD ENGINEERING, INC.

Authorized Signature: [Signature] Date: June 23, 2010

State of West Virginia

County of Morgan to-wit:

Taken, subscribed, and sworn to before me this 23 day of June, 2010.

My Commission expires Sept 6, 2015.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

