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WV PURCHASING
DIVISION

**Expression of Interest
Greenbrier Hollow Refuse Pile Project
Purchase Order No. DEP15226
McDowell County, West Virginia**



Before Construction

Howesville Site One



After Construction

Submitted To:

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF ABANDONED MINE LANDS

601 57th Street, SE – Box 20

Charleston, West Virginia 25304-2345

December 08, 2010

Original



Stantec

1 Moore Avenue
Buckhannon, WV
(304) 472-7140

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**Section 4:
AML Related Project Experience
Matrix**

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**Section 5:
Purchasing Affidavit**



Stantec Consulting Services Inc.
1 Moore Avenue
Buckhannon, WV 26201
Tel: (304) 472-7140
Fax: (304) 472-6239

Stantec

December 08, 2010

West Virginia Department of Environmental Protection
Office of Abandoned Mine Lands
601 57th Street, SE – Box 20
Charleston, West Virginia 25304-2345

Attention: Mr. Nick Estes, Design Administrator

Dear Mr. Estes:

Reference: Greenbrier Hollow Refuse Pile Project, P.O. Number DEP15226

Please find enclosed an Expression of Interest (EOI) for Stantec Consulting Services Inc. to perform engineering services for the Greenbrier Hollow Refuse Pile Project Design, P.O. Number DEP 15226, West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands (WVAML) reclamation project. Stantec Consulting Services Inc. is a 10,000 member engineering company with two offices in West Virginia in Charleston and Buckhannon. Please review the enclosed completed "AML Consultant Confidential Qualification Questionnaire", "AML and Related Project Experience Matrix", and Purchasing Affidavit for Stantec to perform engineering services for the Greenbrier Hollow Refuse Pile Project Design Services project.

Stantec is currently working on Pageton (Lambert) Portals AML Project located just 6 air miles from this site. Therefore, Stantec is very familiar with the project area mining, geology and hydrology of the project site. Stantec has Project specific experience successfully completing projects for the WVAML Program; for the West Virginia Department of Environmental Protection, Office of Special Reclamation; for the Ohio Department of Natural Resources (ODNR) AML Program; and for the West Virginia Conservation Agency. In addition, Stantec has employee project-specific experience completing other Projects for the WVAML Program. Our AML Project experience includes: design meetings, monthly progress reports, invoicing, and other necessary AML paperwork; surveying and mapping; subsurface investigations; existing slope and design slope stability analyses, design, and stabilization; groundwater and surface water testing, analyses, and reporting; refuse and overburden neutralization calculations and design; off-site borrow area investigation and design; wet mine seals and modified wet mine seals with bat gates designs; mass balanced earthwork quantities; structure demolition and removal plans; site drainage design including hydrologic and hydraulic studies for bridges, natural stream designs; channels, ditches, pipes and box culverts; civil site design; sediment control; and revegetation plans as well as construction plans and specifications. Approximately half of these projects involved passive acid mine drainage treatment designs ranging from simple limestone beds to complex interactive systems that boost AMD pH to precipitate metals, settle and filter dissolved metals, and polish effluent water with alkalinity prior to release of near neutral waters from the Project area. In addition, Stantec designed the first active alkaline treatment system for the State of West Virginia (Special Reclamation), which is nearing completion with start-up operations currently underway.

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December 08, 2010

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Reference: Greenbrier Hollow Refuse Pile Project Design, P.O. Number DEP15226

EOI-Specific AML reclamation and related experience completed for the WVDEP includes:

1. WVDEP: Church Creek/Manown Highwall;			
\$2,500,000 Eng. Estimate	220,000 C.Y. Earthwork 13,500 L.Ft. "V" Ditches 929 L.Ft. Flt Btm Ditches 30 L.Ft. Culvert 3,000 L.Ft. Subs. Drain 26 Mine Seals 5 Bat Gate Designs	Refuse Regrading Mine Drainage Treatment Plan Structure and Debris Removal Sediment Control Plan Revegetation 67.0 Acs. Access Road Improvement and Construction	Construction Plans and Specifications, Geotechnical Subsurface Investigation Cost Estimates, Project Mapping, Hydrologic Investigation, Revegetation Plan, Project Reporting and Invoicing
2. WVDEP: Racine (Bradshaw) Portals;			
\$430,000 Eng. Estimate	2,500 C.Y. Earthwork 1,062 L.Ft. "V" Ditches 304 L.Ft. Culverts 16 Mine Seals 8 Bat Gate Designs 100 L.Ft. Subs. Drain	Refuse Regrading Mine Drainage Treatment Plan Structure and Debris Removal Sediment Control Plan Revegetation 5.0 Acs. Access Road Improvement and Construction	Construction Plans and Specifications, Cost Estimates, Project Mapping, Hydrologic Investigation, Revegetation Plan, Project Reporting and Invoicing
3. WVDEP: Howesville Sites;			
\$1,580,000 Eng. Estimate	63,000 C.Y. Earthwork 4,777 L.Ft. "V" Ditches 91 L.Ft. Culverts 15 Mine Seals 4 Bat Gate Designs 1,500 L.Ft. Subs. Drain	Refuse Regrading Stream Bank Protection Mine Drainage Treatment Plan Debris Removal Sediment Control Plan Revegetation 35.0 Acs. Access Road Improvement and Construction	Construction Plans and Specifications, Geotechnical Subsurface Investigation, Cost Estimates, Project Mapping, Hydrologic Investigation, Revegetation Plan, Project Reporting and Invoicing
4. WVDEP: Sandy Run Highwall and Portals;			
\$1,030,000 Eng. Estimate	47,200 C.Y. Earthwork 4,148 L.Ft. "V" Ditches 91 L.Ft. Culverts 1,000 L.Ft. Subs. Drain 6 Mine Seals	Refuse Regrading Stream Bank Protection Mine Drainage Treatment Plan Structure and Debris Removal Sediment Control Plan Revegetation 17.0 Acs. Access Road Improvement and Construction	Construction Plans and Specifications, Geotechnical Subsurface Investigation, Cost Estimates, Project Mapping, Hydrologic Investigation, Revegetation Plan, Project Reporting and Invoicing
5. WVDEP: Weaver Portals and Mine Drainage, Phase I and Phase II;			
\$2,200,000 Eng. Estimate	162,821 C.Y. Earthwork 6,543 L.Ft. "V" Ditches 1,947 L.Ft. Flt Btm Ditches 321 L.Ft. Culverts 14 Wet Mine Seals 1,170 L.Ft. Subs. Drain	Refuse Regrading Debris Removal De-watering Plan Six Limestone Beds w/Aluminators and Flush Ponds Access Road Improvement and Construction	Construction Plans and Specifications, Geotechnical Subsurface Investigation, Cost Estimates, Project Mapping, Hydrologic Investigation, Revegetation Plan , Project Reporting and Invoicing

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Reference: Greenbrier Hollow Refuse Pile Project Design, P.O. Number DEP15226

Some EOI-specific experience completed for the West Virginia Conservation Agency includes:

1. Laurel Lake Sediment Removal Project;

\$800,000 Bid Estimate	77,000 C.Y. Earthwork 90 L.Ft. Flat Bottom Ditches Off-Site Disposal Area Traffic control Plan Utility and DOH Coordination	Debris Removal Refuse Removal Plan De-watering Plan Access Road Improvement and Construction	Construction Plans and Specifications, Geotechnical Subsurface Investigation, Cost Estimates, Project Mapping, Hydrologic Investigation, Revegetation Plan , Project Reporting and Invoicing
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2. North Fork Hughes River Stream Bank Stabilization Project;

\$15,000 Bid Estimate	Mid-Channel Bar Removal Structure Stabilization 350 L.Ft. by 9 Ft. high Riprap Revetment Stream Bank Protection		Construction Plans and Specifications, Geotechnical Subsurface Investigation, Cost Estimates, Project Mapping, Hydrologic Investigation, Revegetation Plan , Project Reporting and Invoicing
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3. Parchment Valley Stream Bank Protection Project;

\$25,000 Bid Estimate	3,100 C.Yds. Excavation 600 L.Ft. by 15 Ft. high Riprap Revetment Stream Bank Protection		Construction Plans and Specifications, Geotechnical Subsurface Investigation, Cost Estimates, Project Mapping, Hydrologic Investigation, Revegetation Plan , Project Reporting and Invoicing
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At the request of WVDEP, Stantec can provide Quality Control/Quality Assurance and Construction Observation for the Greenbrier Hollow Refuse Pile Design Services project. Stantec routinely provides QA/QC services to governmental agencies, public and private companies, and individuals. Some Project-Specific design and associated QA/QC experience includes:

1. WVDEP: Gladly Fork Mining D-35-82 Bond Forfeiture \$3.0M Active Alkaline Treatment Plant;

\$3,100,000 Bid Estimate	Active Alkaline Treatment Plant - Single Train to Treat 1,000 GPM Construction Plans and Specifications Project Mapping Hydrologic Investigation	Concrete Aeration Basin Concrete Flocculator Concrete Settling Basin Concrete Sludge Thickener Concrete Geo-Tube Slab Bridge over Stonecoal Creek	Construction Inspection: Concrete testing and reporting, Compaction testing and reporting, Full Time Construction Observation and Reporting
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2. WVCA: Fisher-Mill Creek Bank Stabilization;

\$284,000 Eng. Est.	148 L.Ft. Drilled Pile and Lag Wall, Ground Water and Surface Water Diversions	Construction Inspection: Concrete testing and reporting, Compaction testing and reporting, Full Time Construction Observation and Reporting	Construction Plans and Specifications, Project Mapping, Hydrologic Investigation Geotechnical Investigation Existing and Proposed Slope Stability
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December 08, 2010

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Reference: Greenbrier Hollow Refuse Pile Project Design, P.O. Number DEP15226

The above Projects demonstrate some of our Project-Specific and Project-Related experience, and details a "one-stop shopping" solution for the Greenbrier Hollow Refuse Pile AML reclamation project. Projects outlined in our attached AMLCCQQ provide more details on the above Projects as well as others completed by Stantec and our employees for the West Virginia Department of Environmental Protection AML and Special Reclamation Programs; the Ohio Department of Natural Resources AML Program; the West Virginia Conservation Agency; and others. Stantec also has employee experience with numerous Small Operators Assistance Program Applications for surface and deep mine applications in West Virginia and Maryland, as well as over 438 hydrologic investigations for Special Reclamation on bond forfeited sites, all involving hydrologic and geologic investigations and Probable Consequences of Mining in different geologic and hydrologic settings across the State.


Stantec can allot two (2) design teams to this project. Design Team leaders are: Gregory Linder, P.E. and Herb Parsons, P.E., L.S. Each design team will have necessary support personnel including CADD Operators, Staff Engineers, Survey Crews, and other support personnel to ensure the project is completed within WVDEP timeframes. In addition, Randy Calkins will serve as AML Manager.

We are very excited about the opportunity to continue our working relationship with the West Virginia Department of Environmental Protection and look forward to providing engineering services on this most important Project. We believe no other company can meet our quality of work, which, when coupled with our experience, allows us to be more efficient and therefore very cost competitive. Our Buckhannon office is located in close proximity to the project site; has successfully and economically completed projects near the project area; and will respond quickly, effectively, and in the most economical way. If chosen, our primary objective will be to address WVAML needs complimented by other professionals in varying fields of expertise available on an "as needed" basis from our pool of over 10,000 professionals in Surveying and Mapping, Civil and Site Engineering, Geotechnical Engineering, and Construction.

Should any questions arise, or if we can supply additional information or be of further service to you, the Purchasing Division, or the West Virginia Department of Environmental Protection, please contact me anytime at (304) 472-7140.

Respectfully Submitted,

STANTEC CONSULTING SERVICES INC.



Herbert L. Parsons III, Senior Associate

Tel: (304) 472-7140

Fax: (304) 472-6239

herb.parsons@stantec.com

Attachment: Stantec EOI for the Greenbrier Hollow Refuse Pile



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
 DEP15226

PAGE
 1

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

RFQ COPY
 TYPE NAME/ADDRESS HERE

Stantec Consulting
 1 Moore Avenue
 Buckhannon, WV 26201

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	FOB	FREIGHT TERMS
11/03/2010				

BID OPENING DATE: 12/08/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
GREENBRIER HOLLOW REFUSE PILE DESIGN						
EXPRESSION OF INTEREST						
<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 GREENBRIER HOLLOW REFUSE PILE PROJECT IN MCDOWELL 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: *Dennis Miller* Dennis Miller TELEPHONE: 304-472-7140 DATE: December 08, 2010

TITLE: Principal FEIN: 11-2167170 ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

RFC NUMBER
 DEP15226

PAGE
 1

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

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

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	FOB	FREIGHT TERMS
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SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	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).

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 #: DEP15226
Opening Date: 12/08/2010
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.....	11/04/2010
EOI Opening Date.....	12/08/2010

1.17 Mandatory Pre-bid Conference: N/A**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 the Greenbrier Hollow Refuse Pile:

Site 1: Travel up North Fork of Elkhorn creek from North Fork to the community of McDowell, turn right up Greenbrier Hollow. Travel approximately 1.0 miles up Greenbrier Hollow to creek crossing below the road on the right. Cross the creek and follow the access road up the hill to the collapsed portals adjacent to the above ground gas line components. The refuse is located to the right and left of the portals.

Site 2: From site 1 travel 1.0 miles downstream to the intersection. Turn right and travel 0.3 miles to the First Baptist Church of McDowell, located on the right. The refuse is located 150 feet up the hill behind the church.

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: The site consist of a mostly un-vegetated refuse pile, approximately five acres in size. Three collapsed portals which are discharging. A second refuse pile approximately ten (10) acres in size.

Site 2: The site consist of a refuse pile approximately two (2) acres in size.

Preliminary design documents will be due 60 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 for the Greenbrier Hollow Refuse Pile:

Create diversion channels, ditches and/or under drains to transport drainage.

Reclaim/re-grade reclaim refuse piles.

Install wet seals.

Re-vegetate all areas disturbed during construction.

3.3 Special Terms and Conditions:

3.3.1 *Bid and Performance Bonds:*

3.3.2 *Insurance Requirements:* \$1,000,000 General Liability per Occurrence
 \$2,000,000 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)
 DEP15226 must be listed on Insurance Cert.

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

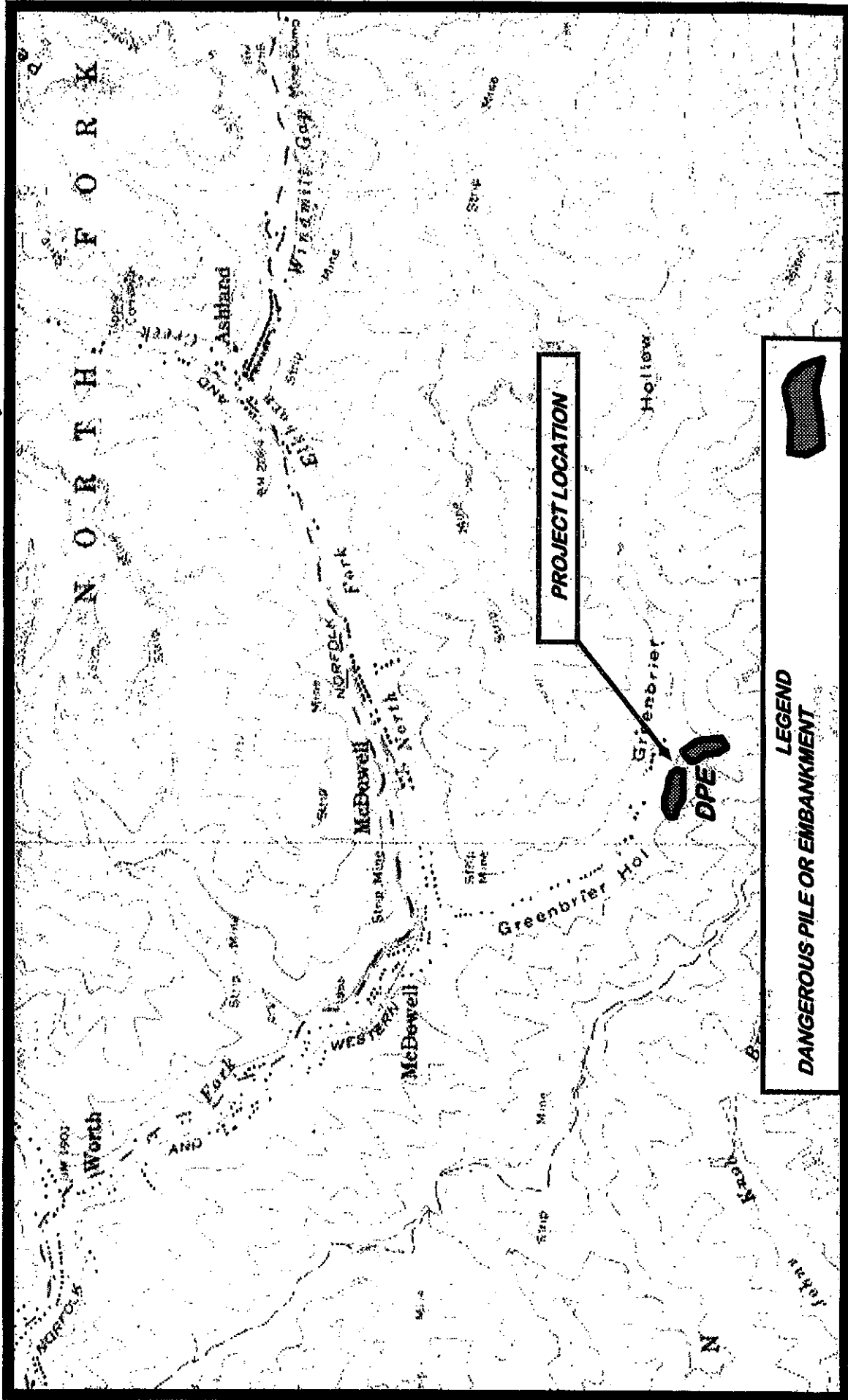
most highly qualified to provide the services required, and shall commence scope of service and price negotiations with the highest qualified professional firm for architectural or engineering services or both. Should the agency be unable to negotiate a satisfactory contract with the professional firm 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 as 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 MAP
GREENBRIER HOLLOW REFUSE PILE, WV-0639**



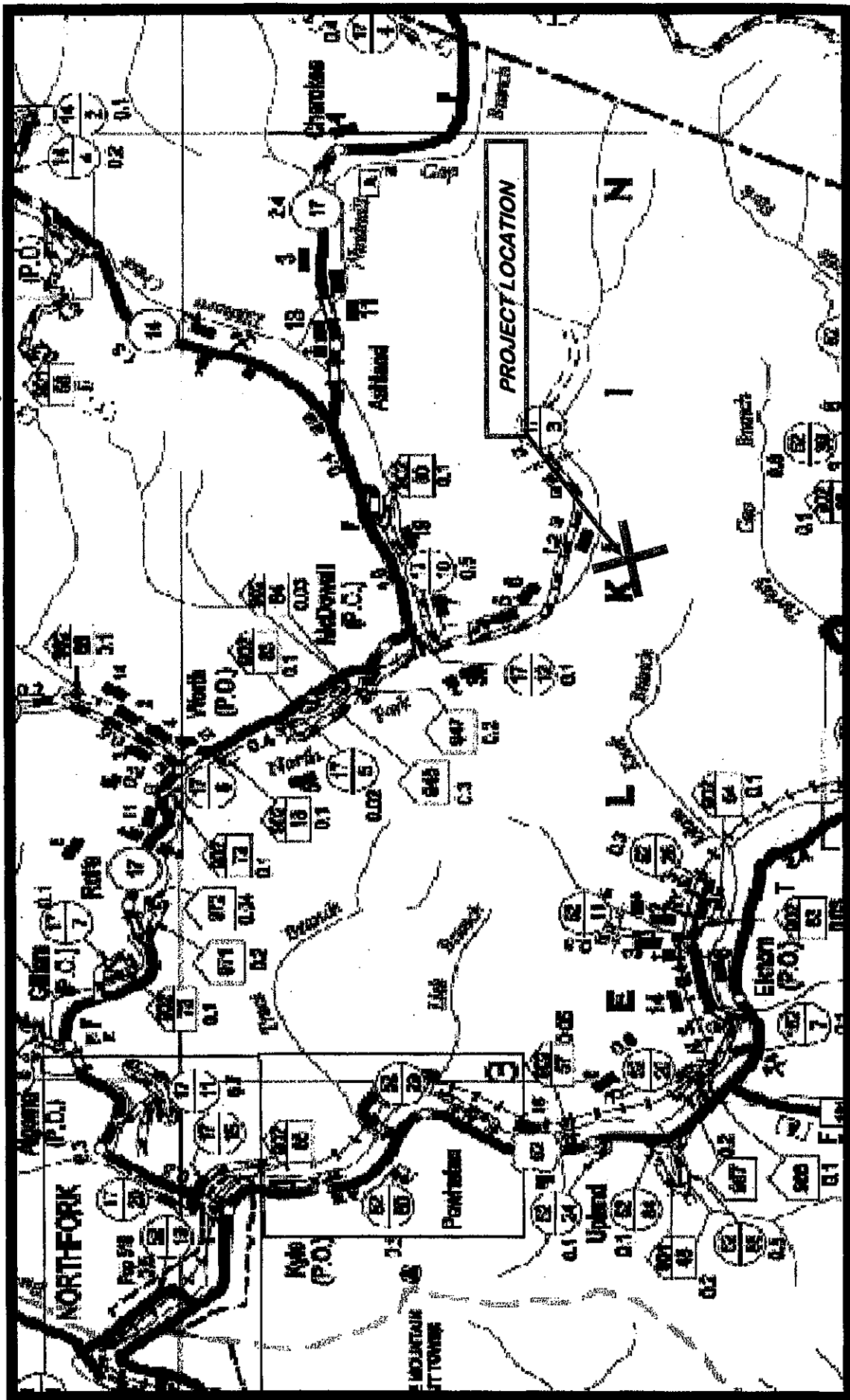
CRUMPLER QUAD

LATITUDE : 37°23'35"

MCDOWELL COUNTY

LONGITUDE : 81°22'17"

**HIGHWAY LOCATION MAP
GREENBRIER HOLLOW REFUSE PILE, WV-0639**



**CRUMPLER QUAD
LATITUDE: 37°23'35"**

**MCDOWELL COUNTY
LONGITUDE: 81°22'17"**

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

Attachment "B"

PROJECT NAME	DATE (DAY, MONTH, YEAR)		FEIN
1. FIRM NAME	2. HOME OFFICE BUSINESS ADDRESS		3. FORMER FIRM NAME
4. HOME OFFICE TELEPHONE	5. ESTABLISHED (YEAR)	6. TYPE OWNERSHIP Individual Corporation Partnership Joint-Venture	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE			
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS	
9. PERSONNEL BY DISCIPLINE			
— ADMINISTRATIVE	— ECOLOGISTS	— LANDSCAPE ARCHITECTS	— STRUCTURAL ENGINEERS
— ARCHITECTS	— ECONOMISTS	— MECHANICAL ENGINEERS	— SURVEYORS
— BIOLOGIST	— ELECTRICAL ENGINEERS	— MINING ENGINEERS	— TRAFFIC ENGINEERS
— CADD OPERATORS	— ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	— OTHER
— CHEMICAL ENGINEERS	— ESTIMATORS	— PLANNERS: URBAN/REGIONAL	
— CIVIL ENGINEERS	— GEOLOGISTS	— SANITARY ENGINEERS	
— CONSTRUCTION INSPECTORS	— HISTORIANS	— SOILS ENGINEERS	— TOTAL PERSONNEL
— DESIGNERS	— HYDROLOGISTS	— SPECIFICATION WRITERS	
— DRAFTSMEN			
<p>TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: _____</p> <p>*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.</p>			
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input type="checkbox"/> NO			

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

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____

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

YES Description and Number of Projects: _____

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: _____

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: _____

NO

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

YES Description and Number of Projects: _____

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: _____

NO

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

YES Description and Number of Projects: _____

NO

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:
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Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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:
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Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:
	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:
	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

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.

20. The foregoing is a statement of facts.

Signature: _____ Title: _____ Date: _____
 Printed Name: _____

11. OUTSIDE KEY CONSULTANTS / SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire".			
NAME AND ADDRESS: Novel Geo-Environmental, PLLC 806 B Street St. Albans, West Virginia 25177	SPECIALTY: Subsurface drilling investigation-geotechnical engineering - soil, rock, coal physical property testing	WORKED WITH BEFORE: <input checked="" type="checkbox"/>	YES NO
NAME AND ADDRESS: Sturm Environmental Services P.O. Box 650 Bridgeport, WV 26330	SPECIALTY: Chemical analysis of soil, rock, and coal	WORKED WITH BEFORE: <input checked="" type="checkbox"/>	YES NO
NAME AND ADDRESS: Aerocon Photogrammetric Services, Inc. 4515 Glenbrook Road Willoughby, OH 44094	SPECIALTY: Aerial Photography Developing mapping from aerial photography	WORKED WITH BEFORE: <input checked="" type="checkbox"/>	YES NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE: <input type="checkbox"/>	YES NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE: <input type="checkbox"/>	YES NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE: <input type="checkbox"/>	YES NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE: <input type="checkbox"/>	YES NO

12. Is your firm experienced in Abandoned Mine Lands Remediation / Mine Reclamation Engineering?
 Description and Number of Projects: **Forty (40) Projects**
 Corporate Experience: **Forty (40) Projects**

Yes
 No

Stantec has successfully completed forty (40) AML Reclamation projects. See Sheets 4 through 9 for a detailed listing of the projects, including the tasks involved with each project.

B. Is your firm experienced in Soil Analysis?

Yes
 No

Description and Number of Projects: **Over 200, including Forty Eight (48) AML and AML Related Projects**

Stantec has successfully completed over 200 soil analysis projects, ranging in size and complexity. In addition, Stantec has completed forty eight (48) AML and AML related Soil Analysis projects. See Sheet 9 for a detailed listing of the AML and related projects, including the tasks involved with each project.

C. Is your firm experienced in Hydrology and Hydraulics?

Yes
 No

Description and Number of Projects: **Seventy Five (75), including Forty Six (46) AML and AML Related Projects**

Stantec has successfully completed ninety five (95) hydrology and hydraulics projects, including studies associated with bridges, box culverts, pipes, ditches, and sediment and other ponds. In addition, Stantec has completed forty six (46) AML and AML Related Hydrology and Hydraulics projects. See Sheet 10 for a detailed listing of the projects, including the tasks involved with each of the AML and AML related projects.

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

Yes
 No

Description and Number of Projects: **Seventy Eight (78), including Sixty Three (63) AML and AML Related Projects**

Stantec subcontracts development of aerial photography to Aerocon Photogrammetric Services and has successfully set aerial photographic control points on numerous engineering projects by GPS and Conventional Surveying techniques. Stantec has also developed topographic and planimetric maps from GPS and Conventional Surveying techniques and supplemented topographic and planimetric features on mapping developed by aerial mapping firms. In addition, Stantec has completed sixty three (63) AML and AML related mapping projects. See Sheet 4 and 11 for a detailed listing of the AML and AML related projects, including the tasks involved with each project.

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
 No

Description and Number of Projects: **Corporate Experience: One Hundred Twenty Two (including Nineteen (19) AML-Related Projects)**

Stantec has successfully completed One Hundred Twenty Two (122) Domestic Waterline projects. In addition, Stantec has completed Nineteen (19) AML-related Domestic Waterline Projects. See Sheet 12 for a detailed listing of the projects, including the tasks involved with each project.

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

Yes
 No

Description and Number of Projects: **Corporate Experience: Fourteen (14) Projects; Employee Experience Seventeen (17) Projects**

Stantec has successfully completed fourteen (14) Acid Mine Drainage Evaluation and Abatement Design projects. See Sheet 13 and 14 for a detailed listing of the projects, including the tasks involved with each project.

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

Description and Number of Projects: Corporate Experience Forty (40) Projects

<input checked="" type="checkbox"/>	Yes
<input type="checkbox"/>	No

CORPORATE EXPERIENCE:

<p>1. <i>Birds Creek Number Four:</i></p>	<p>Reclamation design with 35,000 Cubic Yards of Excavation, eight (8) wet mine seals including five (5) bat gate designs; and 18 acres of revegetation; Topographic Surveying; Generation of Construction Mappings; Soil Testing; Hydraulic Studies and design for Ditches and Pipes; Sediment Control Design; Revegetation Plan. Preliminary and Final Design; Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>
<p>2. <i>Bergoo Waterline Extension Feasibility Study, I.D. No. 351:</i></p>	<p>12.0 Mile Waterline Extension Feasibility Study – I.D. No. 351, involving 350 to 400 Residents. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; Ground Water Contamination Mitigation Alternatives with Estimated Construction Costs; and Initial On-Site Meeting, Preliminary Report, Final Report, Monthly Reports, and Invoicing.</p>
<p>3. <i>Lewis County EDA Waterline Extension Feasibility Study, I.D. No. 374:</i></p>	<p>15.2 Mile Waterline Extension Feasibility Study – I.D. No. 374, involving 110 Residents. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; and Initial On-Site Meeting, Preliminary Report, Monthly Reports, and Invoicing.</p>
<p>4. <i>Scott Road and Findley Road Waterline Extension Feasibility Study, I.D. No. 356:</i></p>	<p>1.5 Mile Waterline Extension Feasibility Study – I.D. No. 356, involving 7 Residents. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; Ground Water Contamination Mitigation Alternatives with Estimated Construction Costs; and Initial On-Site Meeting, Preliminary Report, Final Report, Monthly Reports, and Invoicing.</p>
<p>5. <i>WYDEP Mapping Contract –South Region:</i></p>	<p>Twenty one (21) sites mapped totaling 1,700 acres. Set horizontal and vertical control for and developed aerial mapping for the sites. Set baselines for Engineering Design and Construction on all sites and provided topographic and planimetric survey for features not shown by aerial photography. Visited all sites with DEP, attended project meetings, provided weekly/monthly updates, and invoicing.</p>
<p>6. <i>WYDEP Mapping Contract –North Region:</i></p>	<p>Eight (8) sites mapped totaling 950 acres. Set horizontal and vertical control for and developed aerial mapping for the sites. Set baselines for Engineering Design and Construction on all sites and provided topographic and planimetric survey for features not shown by aerial photography. Visited all sites with DEP, attended project meetings, provided weekly/monthly updates, and invoicing.</p>
<p>7. <i>Church Creek/Manown Highway:</i></p>	<p>Reclamation design of four (4) sites with 11,800 linear feet of highwall with 220,000 Cubic Yards of Excavation, twenty three (23) wet mine seals including two (2) bat gate designs; and 85 acres of revegetation; Topographic Surveying; Subsurface and Geological Investigation (nine (9) piezometers installed); Generation of Construction Mappings; Water and Soil Testing; Hydraulic Studies and design for Ditches and Pipes; Sediment Control Design; Revegetation Plan. Preliminary and Final Design; Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>
<p>8. <i>Racine (Bradshaw) Portals:</i></p>	<p>Reclamation design of six (6) sites with 2,500 Cubic Yards of Excavation, sixteen (16) wet mine seals including eight (8) bat gate designs; and 5 acres of revegetation; Topographic Surveying; Generation of Construction Mapping; Soil Testing; Hydraulic Studies and design for Ditches and Pipes; Sediment Control Design; Revegetation Plan. Preliminary and Final Design; Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>
<p>9. <i>Hampton Number Four Maintenance:</i></p>	<p>Reclamation design of a failed refuse fill approximately 600 feet high (in elevation). The site consists of one (1) slip area and an erosion channel up to 40-feet deep in some areas that traverses the centermost portion of the fill area. Acid mine drainage seeps (field pH = 2.5 S.U.) impacts Spruce Laurel Fork, a high quality trout stream. The 16 acre site required 25,000 cubic yards of earthwork, 2,700 linear foot of ditches, a bridge upgrade to handle construction loads, and upgrading existing access roads. Topographic Surveying; Subsurface Geological Investigation; Surface and Groundwater Testing and Reporting; Generation of Construction Mappings; Hydrologic and Hydraulic Studies and design for Ditches and Pipes; Sediment Control Design; Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>

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

Yes
 No

Description and Number of Projects: Corporate Experience Forty (40) Projects

CORPORATE EXPERIENCE:

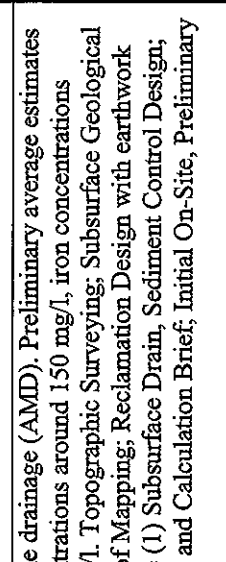
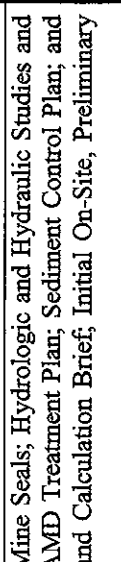
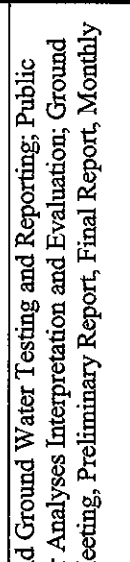
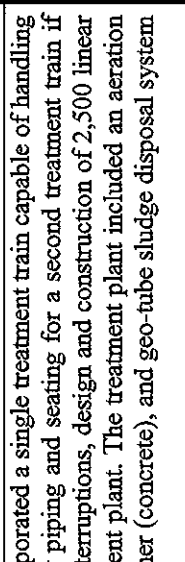
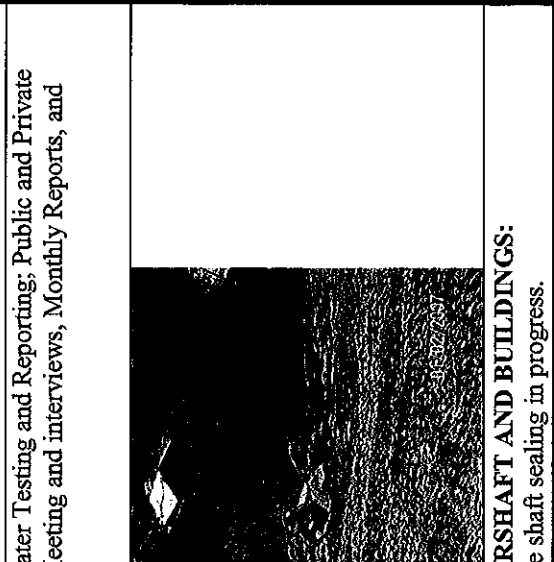
<p>10. <i>Howesville Sites:</i></p>	<p>Reclamation design of two (2) sites with 4,000 linear feet of highwall with 63,000 Cubic Yards of Excavation, fifteen (15) wet mine seals including four (4) bat gate designs; and 52 acres of revegetation; Topographic Surveying of 67 acres; Subsurface and Geological Investigation (five (5) piezometers installed); Generation of Construction Mapping; Water and Soil Testing; Hydraulic Studies and design for Ditches and Pipes; Sediment Control Design; Revegetation Plan. Preliminary and Final Design; Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>
<p>11. <i>Sandy Run Highwall and Portals:</i></p>	<p>Reclamation design of 1,850 linear feet of highwall with 47,200 Cubic yards of Excavation, five (5) wet mine seals; and 15 acres of revegetation. Topographic Surveying of 22 acres; Subsurface and Geological Investigation (three (3) piezometers installed); Generation of Construction Mapping; Water and Soil Testing; Hydraulic Studies and design for Ditches and Pipes; Sediment Control Design; Revegetation Plan. Preliminary and Final Design. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>
<p>12. <i>Wilkie-Rosedale, Sugar Creek PSD Waterline Feasibility Study I.D. No. 324:</i></p>	<p>17.0 Mile Waterline Extension Feasibility Study - I.D. No. 324, involving 175 Residents. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; Ground Water Contamination Mitigation Alternatives with Estimated Construction Costs; and Initial On-Site Meeting, Preliminary Report, Final Report, Monthly Reports, and Invoicing.</p>
<p>13. <i>Laurel Valley (Daniels) Landslide Emergency AML Project:</i></p>	<p>Reclamation design of a 4.0 acre landslide from an abandoned surface mine resting against the Daniels house; 13,000 yards of earthwork; Geotechnical Subsurface Investigation; Existing and Proposed Slope Stability Analysis; Hydrologic and Hydraulic Studies for ditches and culverts; Sediment Control; Revegetation Design. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>
<p>14. <i>Price Hill Airshaft/Buildings (Price Hill Complex):</i></p>	<p>Reclamation design of a 1.5 acre abandoned deep mine shaft site; 1,300 yards of earthwork; suspected vertical mine shaft investigation and sealing (if present); capping another vertical mine shaft with ability to discharge up to 12 cfs of mine water; demolishing several concrete and cut stone ruins; garbage removal, stockpiling and burying on-site refuse. Subsurface Investigation for seating of caps; mine water testing; Hydrologic and Hydraulic Studies for ditches and existing culverts; Sediment Control; Revegetation Design. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>
<p>15. & 16. <i>Weaver Portals and Highwall, Phases I and II:</i></p>	<p>Reclamation design of 4,200 linear feet of highwall with 97,000 yards of earthwork; twenty (20) wet mine seals; six AMD treatment limestone beds with "Aluminators", and 35 acres of revegetation. Topographic Surveying; Subsurface Geological Investigation (six (6) piezometers installed); Surface and Groundwater Testing and Reporting; Supplement and Generation of Mapping; Hydrologic and Hydraulic Studies and design for twenty five (25) Ditches and ten (10) Pipes; Sediment Control Design; Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>
<p>17. <i>Old Bridgeport Hill Mine Drainage, Phase II:</i></p>	<p>Reclamation design including four (4) Wet Mine Seals and Drainage Facilities to capture and convey mine drainage around businesses and residents along a half-mile stretch of Old Bridgeport Hill Road. Topographic Surveying; Subsurface Geological Investigation (Piezometer Installation); Surface and Ground Water Testing and Reporting; Generation of Mapping; Reclamation Design with earthwork quantities; Design and Hydrologic and Hydraulic Studies for nine (9) Ditches, eight (8) Pipes, one (1) Subsurface Drain, and four (4) Inlets; Sediment Control Design; Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>

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

Description and Number of Projects: **Forty (40) Projects**

<input checked="" type="checkbox"/>	Yes
<input type="checkbox"/>	No

CORPORATE EXPERIENCE:

<p>18. <i>Nixon Run AMD:</i></p>	<p>The site consists of one (1) open portal into the abandoned Consol 32 Mine that is discharging acid mine drainage (AMD). Preliminary average estimates of AMD flow from the open portal is 235 gallons per minute exhibiting a pH of 3.2 with acidity concentrations around 150 mg/l, iron concentrations around 11 mg/l, aluminum concentrations around 8 mg/l, and manganese concentrations less than 2 mg/l. Topographic Surveying; Subsurface Geological Investigation (Piezometer Installation); Surface and Ground Water Testing and Reporting; Generation of Mapping; Reclamation Design with earthwork quantities; Design and Hydrologic and Hydraulic Studies for nine 905 L.Ft. Ditches, four (4) Pipes, one (1) Subsurface Drain, Sediment Control Design; and Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>	
<p>19. <i>Arlington (Cox) Drainage:</i></p>	<p>Reclamation design to alleviate ground water impacts to the Cox Residence involving Two (2) Wet Mine Seals; Hydrologic and Hydraulic Studies and design for 198 feet of Subsurface Drains, two (2) Ditches, and one (1) Pipe; Mine Dewatering and AMD Treatment Plan; Sediment Control Plan; and Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>	
<p>20. <i>James and Amanda Taylor Waterline Feasibility Study I.D. No. 309:</i></p>	<p>1.0 Mile Waterline Extension Feasibility Study – I.D. No. 309, involving ten (10) Residents, Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; Ground Water Contamination Mitigation Alternatives with Estimated Construction Costs; and Initial On-Site Meeting, Preliminary Report, Final Report, Monthly Reports, and Invoicing.</p>	
<p>21. <i>Glady Fork Mining, Inc. (Permit D-35-82) Bond Forfeiture:</i></p>	<p>Active AMD Treatment Facility – Involved the design of a \$3,000,000.00 AMD plant design that incorporated a single treatment train capable of handling 1,000 gallons per minute of alkaline mine drainage with 15 ppm of total iron and included necessary piping and seating for a second treatment train if future needs arise. The project also involved relining existing boreholes to eliminate mine discharge interruptions, design and construction of 2,500 linear feet of gravity fed plant intake line from the boreholes to the plant site, and an active chemical treatment plant. The treatment plant included an aeration basin (concrete), flocculator (concrete), chemical feed building, settling basin (concrete), sludge thickener (concrete), and geo-tube sludge disposal system with overflow catchment and re-treatment capabilities.</p>	
<p>22. <i>Poplar Ridge / Morrison Ridge Waterline Feasibility Study – I.D. No. 298:</i></p>	<p>Waterline Extension Feasibility Study – I.D. No. 298, involving 21 Residences, Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water, On-Site Meeting and Interviews, Monthly Reports, and Invoicing.</p>	

NIXON RUN AMD:
Wet Mine Seal outlet pipes and receiving ditch.

PRICE HILL AIRSHAFT AND BUILDINGS:
Vertical mine shaft sealing in progress.

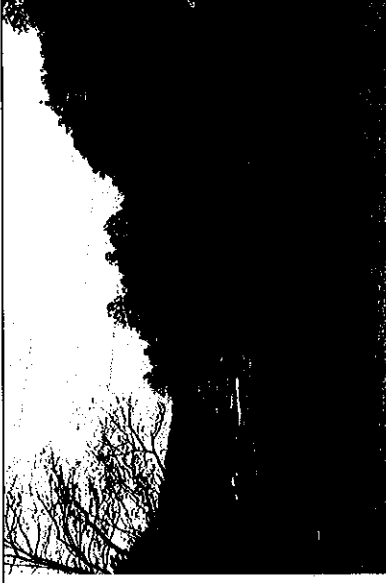
12. Is your firm experienced in Abandoned Mine Lands Remediation / Mine Reclamation Engineering?

Yes
 No

Description and Number of Projects: Corporate Experience (cont.): Forty (40) Projects

CORPORATE EXPERIENCE:

<p>23. <i>Summit Park PSD Waterline Feasibility Study - I.D. No. 288:</i></p>	<p>2.75 Mile Waterline Extension Feasibility Study - I.D. No. 288, involving 167 Residences and Businesses. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; Ground Water Contamination Mitigation; Soil Sampling; Project Mapping; Alternatives with Estimated Construction Costs; and Initial On-Site Meeting, Preliminary Report, Final Report, Executive Summary, Monthly Reports, and Invoicing.</p>
<p>24. <i>Murray City AMD and Art Project:</i></p>	<p>Reclamation design for abandoned portals discharging Acid Mine Drainage. Topographical Surveying; Mapping; Subsurface Investigation (Piezometer Installation and Soils Testing); Passive Acid Mine Drainage Treatment System including two (2) SAPS, two (2) Precipitate Ponds, One (1) Flush Pond, Mine Pool Stabilization Pond and Overflow Treatment Pond; Design and Hydrologic and Hydraulic Studies for Construction in Floodway (Local Flood Plain Coordination and Permit), thirteen (13) Ditches and six (6) Spillways; Design of a Wet Mine Seal; Incorporation of Art Component to Satisfy Funding; Interim Grading Plan to allow relocation of a high pressure gas line; Sediment Control Plan; Revegetation Design; Environmental Permits; Construction Plans and Specifications; Calculation Brief with Quantity Calculations; Engineers Cost Estimate; Initial On-Site, 50%, 90%, Check Set, and Final Design Meetings; Monthly Reports and Invoicing.</p>
<p>25. <i>Nutters Tipple D-716:</i></p>	<p>Reclamation design of a 7.2 Acre Bond Forfeiture Coal Tipple Site; Surveying; Geotechnical (Slope Stability) Investigation; Coal Analysis; HazMat Materials (2 UST'S, 8 AST'S, R-R Ties, 55-Gallon Drums, Refrigerators, Stained Soil); Debris Removal Plan; Design and Hydrologic and Hydraulic Studies for Subsurface Drain; two (2) Ditches, and a Channel Design; Sediment Control Plan; Revegetation Plan; Calculation Brief with Quantity Computations; Engineers Cost Estimate; Construction Plans and Specifications; Initial, 50%, 90%, Final Design Meetings; Monthly Reports and Invoicing.</p>
<p>26. <i>Hodgesville PSD Waterline Feasibility Study - I.D. No. 275:</i></p>	<p>1.2 Mile Waterline Extension Feasibility Study - I.D. No. 275, involving Seventeen (17) Residents. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; Ground Water Contamination Mitigation Alternatives with Estimated Construction Costs; and Initial On-Site Meeting, Preliminary Report, Final Report, Monthly Reports, and Invoicing.</p>
<p>27. <i>McElwain Waterline Feasibility Study - I.D. No. 271:</i></p>	<p>0.64 Mile Waterline Extension Feasibility Study - I.D. No. 271, involving One (1) Resident. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; Ground Water Contamination Mitigation Alternatives with Estimated Construction Costs; and Initial On-Site Meeting, Preliminary Report, Monthly Reports, and Invoicing.</p>



TUNNELTON (DILLSWORTH) LANDSLIDE
Gabion Basket Wall Installation behind Dillsworth Residence

SAULS RUN STRIP AND LANDSLIDE
AML-related slip threatening residences along Sauls Run

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

<input checked="" type="checkbox"/>	Yes
<input type="checkbox"/>	No

Description and Number of Projects:

Corporate Experience (Cont.): Various AML, Mine Reclamation Engineering Projects

<p>28. <i>Fairmont (Hendrickson) Subsidence:</i></p>	<p>Subsidence investigation of Hendrickson Residence involving Geologic Subsurface Investigation; review and compilation of three previous reports; Field Surveying; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Structure and Support Area Mitigation Alternatives; and Initial On-Site Meeting, Preliminary Report, Final Report, Monthly Reports, and Invoicing.</p>				
<p>29. <i>Flint Run East Acid Mine Drainage Reclamation:</i></p>	<p>Phase I Reclamation design of a 171-Acre Coal Refuse Area, design reclamation of spoil piles, treatment and discharge plan for ponds and lakes filled with AMD, passive AMD treatment design, including a SAPS, Wetland, Limestone Bed, Steel Slag Leach Beds, and Open Limestone Channels. GPS, Topographic Surveying; supplement of available aerial mapping; Design and Hydrologic and Hydraulic Studies for four (4) Channels, three (3) Ditches, and seven (7) Spillways, Design of eight (8) Impoundments (Three Flush Ponds, Sediment Pond, SAPS Pond, Fresh Water Pond, and Steel Slag Pond); Sediment Control Design; Revegetation Design; Environmental Permits; Construction Plans and Specifications, Calculation Brief with Quantity Calculations; Engineers Cost Estimate; Initial On-Site, 50%, 90%, Check Set, and Final Design Meetings; Monthly Reports and Invoicing.</p>				
<p>30. <i>Danehart Acid Mine Drainage Reclamation:</i></p>	<p>Reclamation design on a 2.0 Acre Slope Failure Five (5) Feet from a Residence; Surveying (Property and Topographic); Geotechnical (Slope Failure) Investigation; Surface and Ground Water Testing; Mapping; Reclamation Design with Pier and Lag Retaining Wall Design; Design and Hydrologic and Hydraulic Studies for a Ditch, a Subsurface Drain, Culvert Design; Sediment Control Plan; Revegetation Plan; Calculation Brief with Quantity Computations; Engineers Cost Estimate; Construction Plans and Specifications; Initial, 50%, 90%, Check Set, and Final Design Meetings; Monthly Reports and Invoicing.</p>				
<p>31. <i>Midvale Coal Number 7:</i></p>	<p>35 Acre Coal Tipple and Coal Refuse Disposal Fill Area; GPS and Topographic Surveying; Subsurface Investigation; Coal Analysis; Soil Borrow Analysis; HazMat Investigation (PCB's, Drums, Pails, Stained Soils); Mapping; Calculation Brief with Quantity Computations; Initial On-Site, 50%, 90%, Final Design Meetings; Monthly Reports and Invoicing.</p>				
<p>32. <i>Tunnelton (Dillsworth) Landslide:</i></p>	<p>Reclamation of a landslide behind Dillsworth Residence by design of an 84 foot long by 18 foot high Gabion Basket Retaining Wall; Hydrologic and Hydraulic Studies and design for 214 feet of Subsurface Drains, two (2) Pipes, Manhole, and Drop Inlet; Traffic Control and Pavement Repair Plan; Sediment Control Design; and Revegetation Plan Topographic Surveying and Generation of Mapping; Subsurface Geological Investigation (two (2) piezometers installed); Surface and Groundwater Testing and Reporting; Reclamation Design with Earthwork Quantities; Sediment Control Design; and Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>				
<p>33. <i>Sauls Run Strip and Landslide:</i></p>	<p>Reclamation design of AML related slip behind the Love, Lee, Rohrbaugh, and Gregory Residences with 59,350 Yards of Earthwork; Hydrologic and Hydraulic Studies and design for 2,764 feet of Ditches, 500 feet of Subsurface Drains, five (5) Pipes, and two (2) Headwalls; Traffic Control and Pavement Repair Plan; Sediment Control; and 6.7 acres of Revegetation. Topographic Surveying and supplementation and generation of Mapping; Subsurface Geological Investigation (ten (10) piezometers installed); Surface and Groundwater Testing and Reporting; Sediment Control Design; and Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>				
<p>34. <i>Linden Acid Mine Drainage Bioremediation:</i></p>	<table border="1"> <tr> <td data-bbox="1061 1398 1189 1750"> <p>35. <i>Glen Castle Reclamation:</i></p> </td> <td data-bbox="1061 1067 1189 1398"> <p>36. <i>Misco Burning Gob:</i></p> </td> <td data-bbox="1061 735 1189 1067"> <p>37. <i>Ferris Forfeiture:</i></p> </td> <td data-bbox="1061 58 1189 735"> <p>38. <i>Brown Subsidence:</i></p> </td> </tr> </table>	<p>35. <i>Glen Castle Reclamation:</i></p>	<p>36. <i>Misco Burning Gob:</i></p>	<p>37. <i>Ferris Forfeiture:</i></p>	<p>38. <i>Brown Subsidence:</i></p>
<p>35. <i>Glen Castle Reclamation:</i></p>	<p>36. <i>Misco Burning Gob:</i></p>	<p>37. <i>Ferris Forfeiture:</i></p>	<p>38. <i>Brown Subsidence:</i></p>		
<p>39. <i>Flint Run Acid Mine Drainage Reclamation:</i></p>	<p>Provided options with cost/benefit analysis to mitigate "worst" acid mine drainage in the State of Ohio. Project included two (2) month hydrologic investigation; impounded water and sediment investigation; chemical treatment option (AquaFix or hydrated lime) for AMD discharges; passive treatment options for AMD discharges included: eliminating AMD discharge sites through backfilling operations; reducing AMD flows by diverting up-gradient ground waters; cover high infiltration areas; alkaline amendment for coal refuse cover and to support vegetation; open limestone channels; steel slag leach beds; aerobic wetlands; limestone filter beds; limestone polishing leach bed; open limestone drainage ditches and channels; and vegetation plan.</p>				

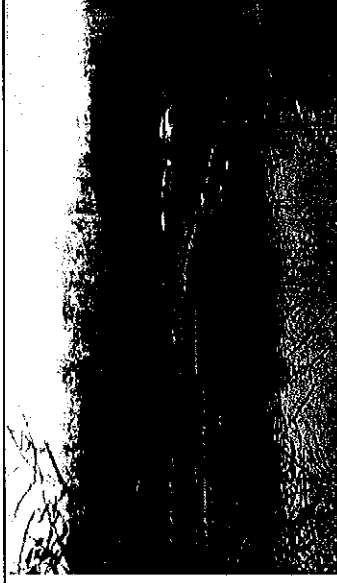
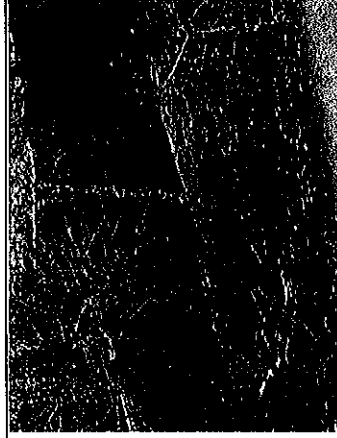
12. A. (Cont.) Is your firm experienced in Abandoned Mine Lands Remediation / Mine Reclamation Engineering?

Yes
 No

Description and Number of Projects: Corporate Experience (Cont.): Various AML, Mine Reclamation Engineering Projects

220 Acre-foot Impoundment Investigation; GPS, Hydrographic and Topographic Surveying; Geotechnical (Pending Embankment Failure) Investigation; Surface and Ground Water Testing; Impounded Water and Sediment Investigation; Mapping; Aerial Photography (Control and Mapping); Reclamation Design Alternatives Report; Hydrologic and Hydraulic Studies for Ditch, Channel, Spillway Design; Sediment Control Design; Revegetation Plan; Calculation Brief with Quantity Computations; Engineers Cost Estimate; Initial On-Site, 50%, 90%, Final Design Meetings; Monthly Reports; Invoicing.

40. Lake Milton Investigation:



Lake Milton Embankment Piping Leak
 LAKE MILTON - near Jackson, Jackson County, OH

Lake Milton Geotechnical Investigation
 LAKE MILTON - near Jackson, Jackson County, OH

Related Abandoned Mine Lands Remediation / Mine Reclamation Engineering

West Virginia Conservation Agency:

Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Krout Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Creek Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project, Coalwood Floodplain Improvement Project, Rachel Floodplain Improvement Project, Barkers Creek Stream Bank Protection Project, Reedsville Equipment Storage Building, Jackson's Mill Livestock Arena, Edgewood Stream Bank Stabilization Project, Pringle Road Landslide Remediation, Back Creek Natural Stream Restoration Project, Bunnell Run Stream Bank Stabilization Project, Deckers Creek Stream Bank Stabilization Project.

12. A. Count) Is your firm experienced in Abandoned Mine Lands Remediation / Mine Reclamation Engineering?
 Description and Corporate Experience: Twenty Three (23) WVAML Projects; One (1) Special Rec Project – Twelve (12) ODN Projects
 Number of Projects: Employee Experience: Additional (12) AML Projects and Various Other Mine Reclamation Projects
 No

AML, MINE RECLAMATION ENGINEERING CORPORATE AND EMPLOYEE EXPERIENCE:

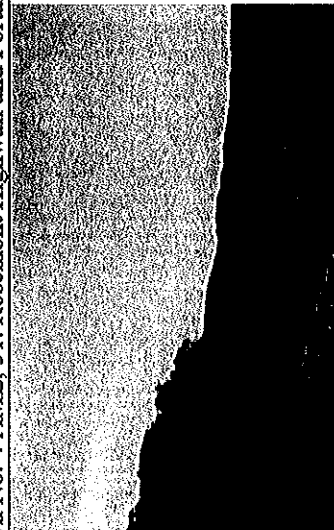
Randy Calkins, Project Manager, WVAML Design – Fifty Two (52) Completed Projects – Three (3) Preliminary Design Projects; Forty Nine (49) Mine Reclamation Engineering Projects.

WVAML – Completed Designs – 1. Birds Creek Number 4; 2. WVDEP Mapping North; 3. WVDEP Mapping South; 4. Church Creek/ Manown Highway; 5. Racine (Bradshaw) Portals; 6. Hampton Number Four Maintenance; 7. Howesville Sites; 8. Sandy Run Highway and Portals; 9. Wilsie Rosedale Waterline Feasibility Study, I.D. 324; 10. Laurel Valley (Daniels) Landslide; 11. Price Hill Airshaft/Buildings; 12. Weaver Portals and Highway Phase I; 13. Weaver Portals and Highway Phase II; 14. Nixon Run AMD; 15. Fairmont (Hendrickson) Subsidence; 16. Tunnelton (Dillsworth) Landslide; 17. Arlington (Cox) Drainage; 18. Sauls Run Strip and Landslide; 19. Taylor Waterline Extension Feasibility Study-I.D. No. 309; 20. Poplar Ridge Waterline Feasibility Study-I.D. No. 298; 21. Summit Park Waterline Feasibility Study-I.D. No. 288; 22. Hodgesville PSD Waterline Extension-I.D. No. 275; 23. McElwain Waterline Feasibility Study-I.D. No. 271; 24. Old Bridgeport Hill Mine Drainage, Phase II; 25. Adaland Tipple and Refuse; 26. Bismark Strip Drainage and Refuse; 27. Brownton School Refuse; 28. Burdock Highway; 29. Clarksburg (Ryder Avenue) Drainage; 30. Conners Highway; 31. Francis Drainage and Refuse; 32. Muddy Creek Tipple Complex; 33. Pringle Drainage; 34. Superior Hydraulics; 35. Thomas (Euclid Avenue) Subsidence; 36. Zebs Creek Highway. – *Preliminary Designs*: 1. Amigo Smokeless Refuse; 2. Austin Highway; 3. Slab Fork Mine Dump. **Special Reclamation** – Gladly Fork Mining, Inc., D-35-82 Bond Forfeiture. **Mine Reclamation Engineering** – Surface Mine Applications (WV – S.O.A.P. Applications) – S.O.A.P. Numbers 201, 205, 206, 208, 209, 210, 211, 212, 213, 214, 216, 217, 221, 230, 233, 236, 238, 247, 249, 250, 251, 260, 267, 268, and 273. Deep Mine Applications (WV – S.O.A.P. Applications) S.O.A.P. Numbers 202, 207, 239, 241, 257, and 271.

Ohio AML – Completed Designs - 1. Flint Run East; 2. Murray City AMD and Art, 3. Flint Run Acid Mine Drainage, 4. Danehart Acid Mine Drainage, 5. Nutters Tipple D-716, 6. Lake Milton Investigation, 7. Midvale Coal Number 7, 8. Linden Acid Mine Drainage Bioremediation, 9. Glen Castle Reclamation, 10. Misco Burning Gob, 11. Ferris Forfeiture, 12. Brown Subsidence

Dennis Miller, Survey Manager, Thirty One (31) Projects:

1. WVDEP Mapping North; 2. WVDEP Mapping South; 3. Church Creek/ Manown Highway; 4. Racine (Bradshaw) Portals; 5. Hampton Number Four Maintenance; 6. Howesville Sites; 7. Sandy Run Highway and Portals; 8. Laurel Valley (Daniels) Landslide; 9. Price Hill Complex; 10. Adaland Tipple and Refuse; 11. Barkers Ridge Highway; 12. Bismark Strip Drainage and Refuse; 13. Bridge Run; 14. Brownton School Refuse; 15. Camp Run; 16. Conners Highway; 17. Dawmont AML; 18. Francis Drainage and Refuse; 19. Muddy Creek Tipple Complex; 20. Pine Bluff Tipple Site; 21. Philip Thorn Highway; 22. Rainelle AML; 23. SCS Reclamation; 24. Shegon Refuse Pile; 25. Shoemaker Landslide; 26. Superior Hydraulics; 27. Taylor Creek Impoundment; 28. Taylor Creek Tipple Complex; 29. Tibbs Run Portal; 30. Masontown No. 4 AML; 31. Rosemont Highway and Portals



Reclaimed Highwall
ZEBS CREEK HIGHWALL - near Elkins, Randolph County, WV

Stabilized Refuse Pile
MUDDY CREEK TIPPLE COMPLEX - near Mt. Storm, Grant County, WV

12.	<p>P Is your firm experienced in Soil Analysis? Description and Number of Projects: Numerous Projects Involving Physical Properties of Soil Including Soil Stability Investigations, Design of Soil Fill Slopes, as well as Chemical Properties of Soils including Revegetation Plans.</p>	Yes
		No

CORPORATE EXPERIENCE:

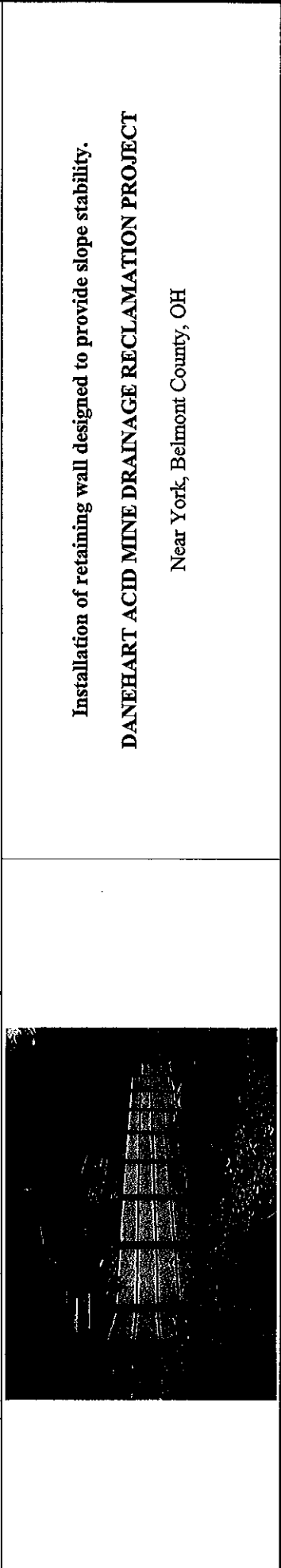
Slope Stability and Design of Fill Slopes
 AML - Laurel Valley (Daniels) Landslide; Price Hill Airshaft/Buildings; Fairmont (Hendrickson) Subsidence; Tunnelton (Dillsworth) Landslide; Sauls Run Strip and Landslide; Nutters Tipple D-716; Danehart Acid Mine Drainage; Lake Milton Investigation. WVCA - Fisher-Mill Creek Bank Stabilization; Harmons Creek Bank Stabilization; Parchment Valley Bank Stabilization; North Fork Hughes River Bank Stabilization. Landfills - Franklin County Sanitary Landfill Capping and Closure Plan; Bobmeyer Landfill Capping and Closure Plan; Fayette County Sanitary Landfill #3 Capping and Closure Plan; Hardin County Sanitary Landfill Capping and Closure Plan; Allied Sanitary Landfill Capping and Closure Plan; Triangle Landfill Capping and Closure Plan; Coshocton Landfill Capping and Closure Plan; B & E Landfill Capping and Closure Plan; Westerville Landfill Capping and Closure Plan. Road Design - U.S. Route 35 Couch to Coast Guard Station; Lawrence County Route 7; Corridor H, Section 6 Davis to Bismark; Williams Road Widening; Journal Street Extension; Frantz Road; Maxtown Road; Alum Creek Drive. Quality Control / Quality Assurance Projects - Gladly Fork Permit D-35-82 Bond Forfeiture; ODNR Racine Docks; Fisher Mill Creek bank Stabilization; Hazelton Federal Prison; Clifford Hollow Bridge; Corridor H Job 123; Corridor H Job 125; Corridor H at Baker; Mon-Fayette Bridge; Glenville Federal Prison.

Revegetation Plans
 AML - Birds Creek Number 4; Church Creek/Manown Highway; Racine (Bradshaw) Portals; Howesville Sites, Sandy Run Portals; Laurel Valley (Daniels) Landslide; Price Hill Airshaft/Buildings; Gladly Fork Mining, Inc. D-35-82 Bond Forfeiture; Weaver Portals and Highway Phase I and II; Nixon Run AMD; Tunnelton (Dillsworth) Landslide; Arlington (Cox) Drainage; Sauls Run Strip and Landslide; Old Bridgeport Hill Mine Drainage, Phase II; Flint Run East Acid Mine Drainage Reclamation; Murray City AMD and Art Project; Flint Run Acid Mine Drainage Reclamation; Danehart Acid Mine Drainage; Midvale Coal Number 7; Nutters Tipple D-716; Lake Milton Investigation. Landscape Architecture Projects (with soil and vegetation designs) - Willowbrook Linear Parkway; Willowbrook Conceptual Park Plan; Northgate Commercial Development; Montgomery Park; Tartan Fields Golf Course; Hoff Woods Park; Merri-Mac Park; Bridlewood Park, Friendship Park.

AML, MINE RECLAMATION ENGINEERING EMPLOYEE EXPERIENCE:

Randy Calkins, Project Manager, WVAML Design - Thirty Four (34) Completed Projects; Numerous Mine Reclamation Engineering Projects:

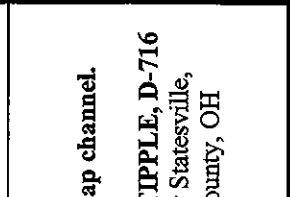
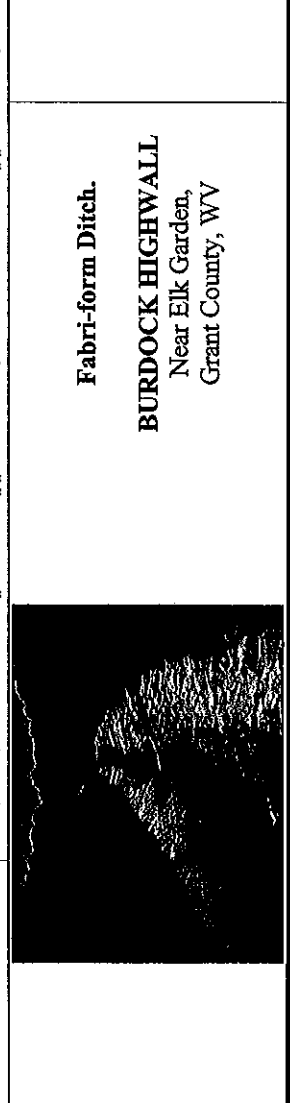
WVAML - Completed Designs - 1. Birds Creek Number 4; 2. Church Creek/ Manown Highway; 3. Racine (Bradshaw) Portals; 4. Hampton Number Four Maintenance; 5. Howesville Sites; 6. Sandy Run Highway and Portals; 7. Wilsie Rosedale Waterline Feasibility Study, I.D. 324; 8. Laurel Valley (Daniels) Landslide; 9. Price Hill Airshaft/Buildings; 10. Weaver Portals and Highway Phase I; 11. Weaver Portals and Highway Phase II; 12. Nixon Run AMD; 13. Fairmont (Hendrickson) Subsidence; 14. Tunnelton (Dillsworth) Landslide; 15. Arlington (Cox) Drainage; 16. Sauls Run Strip and Landslide; 17. Taylor Waterline Extension Feasibility Study-I.D. No. 309; 18. Poplar Ridge Waterline Feasibility Study-I.D. No. 275; 19. Summit Park Waterline Feasibility Study-I.D. No. 288; 20. Hodgesville PSD Waterline Extension-I.D. No. 275; 21. McElwain Waterline Feasibility Study-I.D. No. 271; 22. Old Bridgeport Hill Mine Drainage, Phase II; 23. Adaland Tipple and Refuse; 24. Bismark Strip Drainage and Refuse; 25. Brownnton School Refuse; 26. Burdock Highway; 27. Clarksburg (Ryder Avenue) Drainage; 28. Conners Highway; 29. Francis Drainage and Refuse; 30. Muddy Creek Tipple Complex; 31. Pringle Drainage; 32. Superior Hydraulics; 33. Thomas (Euclid Avenue) Subsidence; 34. Zebs Creek Highway.

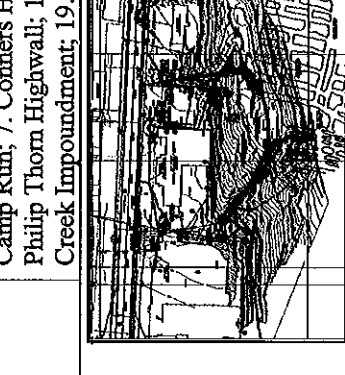
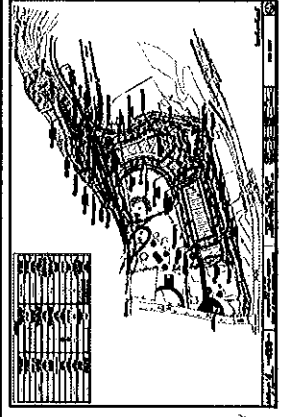


Installation of retaining wall designed to provide slope stability.

DANEHART ACID MINE DRAINAGE RECLAMATION PROJECT

Near York, Belmont County, OH

<p>12. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Is your firm experienced in hydrology and hydraulics? Description and Number of Projects: Numerous Projects Including H & H Studies for Flood Plain Improvements, Impoundments, R Bridges, Pipes, Culverts, Box Culverts, Ditches, Channels, and Channel Relocations and Restoration using Natural Stream Design Techniques.</p>	<p>CORPORATE EXPERIENCE:</p>
<p><i>H & H Studies for Flood Plain Improvements and Impoundments</i></p>	<p>AML – Weaver Portals and Highway Phase I & II; Flint Run East Acid Mine Drainage Reclamation; Murray City AMD and Art Project; Flint Run Acid Mine Drainage Reclamation; Lake Milton Investigation. SPEC REC – Glady Fork Mining, Permit D-35-82, NPDES and Waste Permits (Sediment Control Structures) – C.J. Martin Enterprises, A.F. Wendling Inc.; Pope Properties; Deer Park Development; Fairfax Trucking (Corridor H); Mountaineer Grading (Upper Tract to Petersburg Road); Allwood Construction (Philippi Bypass); Odom Construction Job 123 (4 Waste Permits); Odom Construction Job 125 (1 Waste Permit); C.J. Martin Enterprises Waste Permit; Mountaineer Grading (Moorefield Junction Road). WVCA – Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project.</p>	<p>AML – Weaver Portals and Highway Phase I & II; Flint Run East Acid Mine Drainage Reclamation; Murray City AMD and Art Project; Flint Run Acid Mine Drainage Reclamation; Lake Milton Investigation. SPEC REC – Glady Fork Mining, Permit D-35-82, NPDES and Waste Permits (Sediment Control Structures) – C.J. Martin Enterprises, A.F. Wendling Inc.; Pope Properties; Deer Park Development; Fairfax Trucking (Corridor H); Mountaineer Grading (Upper Tract to Petersburg Road); Allwood Construction (Philippi Bypass); Odom Construction Job 123 (4 Waste Permits); Odom Construction Job 125 (1 Waste Permit); C.J. Martin Enterprises Waste Permit; Mountaineer Grading (Moorefield Junction Road). WVCA – Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project.</p>
<p><i>H & H Studies for Bridges</i></p>	<p>SPEC REC – Glady Fork Mining, Permit D-35-82, Others – Route 35 (Mason County); Mile Branch Bridge; Upper Tract bridge; Buffalo Creek Bridge; Sawmill Parkway Pedestrian Crossing; Southwest Dublin Traffic Calming; LAW-7-02.17; LIC-40-44.930; FRA-70-13.12; FRA-315-00.30R; SHE-CR-41-3.14; PER-93-33.26B; MEG-143-11.29; Children’s Home Road Bridge; PIC/FRA-23-12.92/0.00; CR 23 over Elk Fork; HIG-138-24.36; Ranger Road over Georges Creek; CR24A over the Hocking River; CR24 over the Hocking River; HIG-28-2.80; PER-93-12.40; GUE-209-5.73; CR 41 over the Miami River; I670(S) over Conrail; B&O and N&W Railroads; 4th Street Connector over Conrail and B&O Railroads; I670 over Alum Creek; I670 over 5th Street.</p>	<p>SPEC REC – Glady Fork Mining, Permit D-35-82, Others – Route 35 (Mason County); Mile Branch Bridge; Upper Tract bridge; Buffalo Creek Bridge; Sawmill Parkway Pedestrian Crossing; Southwest Dublin Traffic Calming; LAW-7-02.17; LIC-40-44.930; FRA-70-13.12; FRA-315-00.30R; SHE-CR-41-3.14; PER-93-33.26B; MEG-143-11.29; Children’s Home Road Bridge; PIC/FRA-23-12.92/0.00; CR 23 over Elk Fork; HIG-138-24.36; Ranger Road over Georges Creek; CR24A over the Hocking River; CR24 over the Hocking River; HIG-28-2.80; PER-93-12.40; GUE-209-5.73; CR 41 over the Miami River; I670(S) over Conrail; B&O and N&W Railroads; 4th Street Connector over Conrail and B&O Railroads; I670 over Alum Creek; I670 over 5th Street.</p>
<p><i>H & H Studies for Pipes, Inlets, Culverts, Box Culverts</i></p>	<p>AML – Birds Creek Number 4; Church Creek/Manown Highway; Racine (Bradshaw) Portals; Howesville Sites, Sandy Run Portals; Laurel Valley (Daniels) Landslide; Price Hill Airshaft/Buildings; Weaver Portals and Highway Phase I & II; Nixon Run AMD; Tumbleton (Dillsworth) Landslide; Arlington (Cox) Drainage; Sauls Run Strip and Landslide; Old Bridgeport Hill Mine Drainage, Phase II; Flint Run East Acid Mine Drainage Reclamation; Murray City AMD and Art; Flint Run Acid Mine Drainage Reclamation; Danehart Acid Mine Drainage; Nutters Tipple D-716; Lake Milton Investigation. SPEC REC – Glady Fork Mining, Permit D-35-82. Road Design – U.S. Route 35; Lawrence Route 7; Corridor H, Section 6 Davis to Bismark; Williams Road Widening; Journal Street Extension; Frantz Road; Maxtown Road; Alum Creek Drive.</p>	<p>AML – Birds Creek Number 4; Church Creek/Manown Highway; Racine (Bradshaw) Portals; Howesville Sites, Sandy Run Portals; Laurel Valley (Daniels) Landslide; Price Hill Airshaft/Buildings; Weaver Portals and Highway Phase I & II; Nixon Run AMD; Tumbleton (Dillsworth) Landslide; Arlington (Cox) Drainage; Sauls Run Strip and Landslide; Old Bridgeport Hill Mine Drainage, Phase II; Flint Run East Acid Mine Drainage Reclamation; Murray City AMD and Art; Flint Run Acid Mine Drainage Reclamation; Danehart Acid Mine Drainage; Nutters Tipple D-716; Lake Milton Investigation. SPEC REC – Glady Fork Mining, Permit D-35-82. Road Design – U.S. Route 35; Lawrence Route 7; Corridor H, Section 6 Davis to Bismark; Williams Road Widening; Journal Street Extension; Frantz Road; Maxtown Road; Alum Creek Drive.</p>
<p><i>Stream Assessments and Restoration</i></p>	<p>404, 401 Certification and Natural Stream Design of over 72,000 lineal feet of streams; Racine (Bradshaw) Portals; Weaver Portals and Highway; Oxford Mining Company – New Lexington North Mine, Adamsville Mine; Sands Hill Coal Company – Pearce Mine, Mead/Coffin Mine, Circle Drive Mine, 300 Pit Mine, Big Valley Mine; Waterloo Coal Company, Inc – Winchester Mine, Westlake Mine, Mead/Sinn Mine, Allied Wets Mine; U.S. Rte. 35 600 linear feet. WVCA – Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal; Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project.</p>	<p>404, 401 Certification and Natural Stream Design of over 72,000 lineal feet of streams; Racine (Bradshaw) Portals; Weaver Portals and Highway; Oxford Mining Company – New Lexington North Mine, Adamsville Mine; Sands Hill Coal Company – Pearce Mine, Mead/Coffin Mine, Circle Drive Mine, 300 Pit Mine, Big Valley Mine; Waterloo Coal Company, Inc – Winchester Mine, Westlake Mine, Mead/Sinn Mine, Allied Wets Mine; U.S. Rte. 35 600 linear feet. WVCA – Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal; Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project.</p>
<p><i>H & H Studies for Pipes, Culverts, Box Culverts</i></p>	<p>AML, MINE RECLAMATION ENGINEERING EMPLOYEE EXPERIENCE: <i>Randy Calkins, Project Manager, WVAML Design - Thirty One (31) Completed Projects – Three (3) Preliminary Design Projects; Mine Reclamation Eng.:</i> WVAML – <i>Completed Designs</i> - 1. Adaland Tipple and Refuse; 2. Bismark Strip Drainage and Refuse; 3. Brownton School Refuse; 4. Burdock Highway; 5. Clarksburg (Ryder Avenue) Drainage; 6. Conners Highway; 7. Francis Highway; 8. Muddy Creek Tipple Complex; 9. Pringle Drainage; 10. Superior Hydraulics; 11. Thomas (Euclid Avenue) Subsidence; 12. Zebs Creek Highway. Mine Reclamation Engineering – Surface Mine Applications (WV – S.O.A.P. Applications) – S.O.A.P. Numbers 201, 205, 206, 208, 209, 210, 211, 212, 213, 214, 216, 217, 221, 230, 233, 236, 238, 247, 249, 250, 251, 260, 267, 268, and 273. Deep Mine Applications (WV – S.O.A.P. Applications) S.O.A.P. Numbers 202, 207, 239, 241, 257, and 271</p>	<p>AML, MINE RECLAMATION ENGINEERING EMPLOYEE EXPERIENCE: <i>Randy Calkins, Project Manager, WVAML Design - Thirty One (31) Completed Projects – Three (3) Preliminary Design Projects; Mine Reclamation Eng.:</i> WVAML – <i>Completed Designs</i> - 1. Adaland Tipple and Refuse; 2. Bismark Strip Drainage and Refuse; 3. Brownton School Refuse; 4. Burdock Highway; 5. Clarksburg (Ryder Avenue) Drainage; 6. Conners Highway; 7. Francis Highway; 8. Muddy Creek Tipple Complex; 9. Pringle Drainage; 10. Superior Hydraulics; 11. Thomas (Euclid Avenue) Subsidence; 12. Zebs Creek Highway. Mine Reclamation Engineering – Surface Mine Applications (WV – S.O.A.P. Applications) – S.O.A.P. Numbers 201, 205, 206, 208, 209, 210, 211, 212, 213, 214, 216, 217, 221, 230, 233, 236, 238, 247, 249, 250, 251, 260, 267, 268, and 273. Deep Mine Applications (WV – S.O.A.P. Applications) S.O.A.P. Numbers 202, 207, 239, 241, 257, and 271</p>
	<p>Rock riprap channel.</p>	
<p>Fabri-form Ditch.</p>	<p>BURDOCK HIGHWAY Near Elk Garden, Grant County, WV</p>	<p>NUTTERS TIPPLE, D-716 Near New Statesville, Perry County, OH</p>

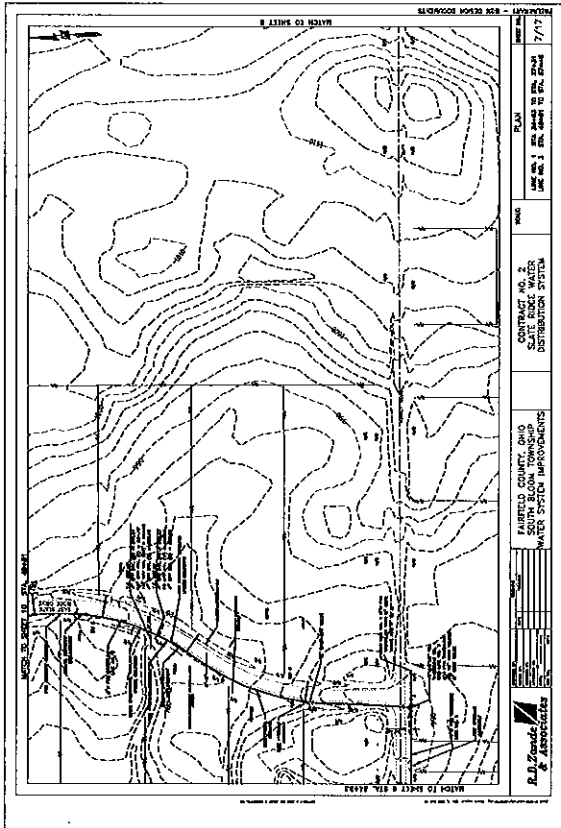
<p>12. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Does your firm produce its own Aerial Photography and Development Contour Mapping? Description and Number of Projects: Numerous Projects Developed Contour Mapping from Conventional and GPS Surveying. Aerial Photography and Associated Mapping Subcontracted to Aerocon Photogrammetric Services.</p>
<p>CORPORATE EXPERIENCE:</p>	<p>AML – WVDEP North Mapping Contract, 21 Sites Totaling 1,700 Acres, WVDEP South Mapping Contract, 8 Sites Totaling 950 Acres.</p>
<p>Contour Mapping from Aerial Photography</p>	<p>AML – Birds Creek Number Four; Church Creek/Manown Highway; Racine (Bradshaw) Portals; Howesville Sites, Sandy Run Portals; Hampton Number Four Maintenance; Howesville Sites; Sandy Run Highway and Portals; Laurel Valley (Daniels) Landslide; Price Hill Airshaft/Buildings; Weaver Portals and Highway, Phase I & II; Nixon Run AMD; Tumbleton (Dillsworth) Landslide; Arlington (Cox) Drainage; Sauls Run Strip and Landslide; Fairmont (Hendrickson) Subsidence; Old Bridgeport Hill Mine Drainage, Phase II; Flint Run East Acid Mine Drainage Reclamation; Murray City AMD and Art Project; Flint Run Acid Mine Drainage Reclamation; Danchart Acid Mine Drainage; Nutters Tipple D-716; Lake Milton Investigation; Midvale Coal Number 7; Linden Acid Mine Drainage Bioremediation; Glen Castle Reclamation; Misco Burning Gob; Ferris Forfeiture; Brown Subsidence. SPEC REC – Gladly Fork Mining, Permit D-35-82. WVCA – Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project. NPDES and Waste Permits - C.J. Martin Enterprises; A.F. Wendling Inc.; Pope Properties; Deer Park Development; Fairfax Trucking (Corridor H); Mountaineer Grading (Upper Tract to Petersburg Road); Allwood Construction (Philippi Bypass); Odom Construction Job 123 (4 Waste Permits); Odom Construction Job 125 (1 Waste Permit); C.J. Martin Enterprises Waste Permit; Mountaineer Grading (Moorefield Junction Road). Others – Glenville Federal Prison Pistol Range; BBL Carlton State Office Consolidation Complex Site; West Virginia Wesleyan College Site; Unlimited Futures Site; Dollar Tree Site; Jim Waggle Site; John Jenkins Site.</p>
<p>AML, MINE RECLAMATION ENGINEERING EMPLOYEE EXPERIENCE:</p>	<p>Randy Calkins, Project Manager, WVAML Design – Forty Two (42) Completed Projects – Three (3) Preliminary Design Projects; Mine Reclamation Engineering:</p>
<p>Contour Mapping from GPS and Conventional Surveying Techniques</p>	<p>WVAML – Completed Designs - 1. Adaland Tipple and Refuse; 2. Bismark Strip Drainage and Refuse; 3. Brownnton School Refuse; 4. Burdock Highway; 5. Clarksburg (Ryder Avenue) Drainage; 6. Conners Highway; 7. Francis Drainage and Refuse; 8. Muddy Creek Tipple Complex; 9. Pringle Drainage; 10. Superior Hydraulics; 11. Thomas (Euclid Avenue) Subsidence; 12. Zets Creek Highway. Preliminary Designs: 1. Amigo Smokeless Refuse; 2. Austin Highway; 3. Slab Fork Mine Dump. Mine Reclamation Engineering – Surface Mine Applications (WV – S.O.A.P. Applications) – S.O.A.P. Numbers 201, 205, 206, 208, 209, 210, 211, 212, 213, 214, 216, 217, 221, 230, 233, 236, 238, 247, 249, 250, 251, 260, 267, 268, and 273. Deep Mine Applications (WV – S.O.A.P. Applications) S.O.A.P. Numbers 202, 207, 239, 241, 257, and 271.</p> <p>Dennis Miller, Survey Manager, Fifty Three (53) Projects:</p> <p>WVAML - 1. Adaland Tipple and Refuse; 2. Barkers Ridge Highway; 3. Bismark Strip Drainage and Refuse; 4. Bridge Run; 5. Brownnton School Refuse; 6. Camp Run; 7. Conners Highway; 8. Dawmont AML; 9. Francis Drainage and Refuse; 10. Muddy Creek Tipple Complex; 11. Pine Bluff Tipple Site; 12. Philip Thorn Highway; 13. Rainelle AML; 14. SCS Reclamation; 15. Shegon Refuse Pile; 16. Shoemaker Landslide; 17. Superior Hydraulics; 18. Taylor Creek Impoundment; 19. Taylor Creek Tipple Complex; 20. Tibbs Run Portal; 21. Masontown No. 4 AML</p>
<p>Mapping generated from conventional surveying. OLD BRIDGEPORT HILL MINE DRAINAGE</p>	
<p>Mapping generated from conventional and GPS survey techniques. MURRAY CITY AMD AND ART PROJECT</p>	

12. **F** Is your firm experienced in domestic waterline experience? (Provide experience your firm has in evaluation of aquifer degradation as a result of mining.)
 Description and Number of Projects: Numerous Domestic Waterline Experience Projects and Projects with Evaluation of Aquifers.

X	Yes
<input type="checkbox"/>	No

CORPORATE EXPERIENCE:

<p><i>Waterline Extension Feasibility Studies</i></p>	<p>AML - 1. Bergoo Waterline Extension Feasibility Study, I.D. No. 351; 2. Lewis County EDA Waterline Extension Feasibility Study, I.D. No. 374; 3. Scott Road and Findley Road Waterline Extension Feasibility Study, I.D. No. 356; 4. Wilsie-Rosedale Waterline Extension Feasibility Study - I.D. No. 324; 5. James and Amanda Taylor Waterline Extension Feasibility Study - I.D. No. 309; 6. Poplar Ridge/Morrison Ridge Waterline Feasibility Study - I.D. No. 298; 7. Summit Park PSD Waterline Extension Feasibility Study - I.D. No. 288; 8. Hodgesville PSD Waterline Extension Feasibility Study - I.D. No. 275; 9. Charles L. and Donice J. McElwain Waterline Feasibility Study - I.D. No. 271. SPEC REC - Glady Fork Mining, Permit D-35-82.</p>
<p><i>Aquifer Degradation Investigation</i></p>	<p>AML (Mining Related) - Weaver Portals and Highway; Flint Run Acid Mine Drainage Reclamation; Lake Milton Investigation; Danehart Acid Mine Drainage; Other - Remining in Ohio: Hydrologic Background Sampling Options; New Wellfield Development, Village of Frazeyburg; Wellfield Expansion, Village of Commercial Point; Groundwater Observation Well Network Evaluation and Improvements Statewide; Installation of Monitoring Wells, Columbus South Wellfield Improvements: RJ/FS, Eau Claire Municipal Well Field.</p>
<p><i>Domestic Waterline Experience</i></p>	<p>Private - Pope Properties Cross Lanes; Odom Construction Corridor H Job 123. Public - Southwest Bloom Township Water Line Improvements; Alum Creek Pump Station; Lithopolis Water Treatment Plant; Kenton Water Treatment Plant; Frazeyburg Water Treatment Plant; Cedar Hill Road Waterline Study; Logan Water System Modeling; James Road Waterline; Dublin Road Waterline; Seeds-Zuber Road Waterline Extension; Young Road Waterline Extension; McKinley Avenue 48" Water Main Design; Madeira-Riverside Drive Waterline; U.S. Route 33 Water System Improvements-12" Waterline Extension; West Logan Lift Station Upgrade; Zahn's Corner Industrial Park Water System Improvements; Elevated Water Storage Tanks for various municipalities</p>

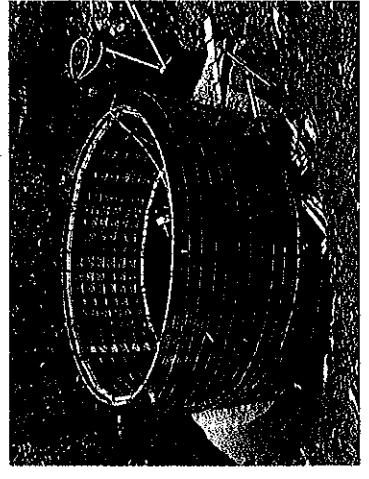
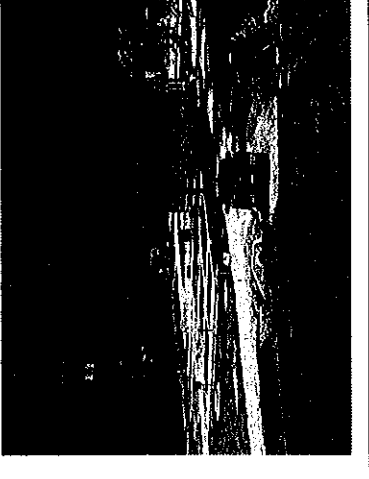


Waterline distribution system design.

SOUTH BLOOM TOWNSHIP WATERLINE EXTENSION

Near South Bloom, Fairfield County, OH

<p>12. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design? Description and Number of Projects: Corporate Experience - 1 (9) WVDEP AML Projects, Six (6) Ohio AML Projects; One (1) Ohio Watershed Organization - Employee Experience - Three (3) WVAML Projects - Thirteen (13) Bond Forfeiture Projects.</p>	<p>CORPORATE EXPERIENCE:</p> <p>Active AMD Treatment Facility - Involved the design of a \$3,000,000.00 AMD plant design that incorporated a single treatment train capable of handling 1,000 gallons per minute of alkaline mine drainage with 15 ppm of total iron and included necessary piping and seating for a second treatment train if future needs arise. The project also involved relining existing boreholes to eliminate mine discharge interruptions, design and construction of 2,500 linear feet of gravity fed plant intake line from the boreholes to the plant site, and an active chemical treatment plant. The treatment plant included an aeration basin (concrete), flocculator (concrete), chemical feed building, settling basin (concrete), sludge thickener (concrete), and geo-tube sludge disposal system with overflow catchment and re-treatment capabilities. Treated water limits are 0.50 ppm iron average, 0.75 ppm iron maximum.</p> <p>WVDEP AML - Twenty (20) collapsed portals contribute approximately 95 gpm of pH 3.2, 200 mg/l acidity, 10 mg/l iron, 20 mg/l aluminum, and 2 mg/l manganese to Beaver Creek. Designed passive acid mine drainage treatment systems consisting of Open Limestone Channels and six (6) Limestone Beds with engineered "Aluminator" piping systems. The project also included 97,000 Yards Earthwork, 20 Wet Mine Seals, 25 Ditches, 10 Pipes, Sediment Control Plan, and 35 acre Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p> <p>WVDEP AML - Designed Mine Dewatering and AMD Discharge Treatment Plans.</p> <p>Ohio AML - Phase I - Designed passive acid mine drainage treatment system for "worst" acid mine drainage in the State of Ohio. Water Quality was pH 3.0, acidity from 1,600 to 6,000 mg/l, iron from 200 to 600 mg/l, aluminum from 30 to 250 mg/l, and manganese from 5 to 55 mg/l. Designs include Open Limestone Channels; Sediment Pond, SAPS Pond, Wetland, Horizontal Limestone Bed, Fresh Water Pond, Steel Slag Leach Bed, and three (3) Flush Ponds; up-gradient diversion of ground water around refuse fills; cover high infiltration areas, alkaline amendment for coal refuse cover and vegetation; sediment control design; vegetation design; environmental permits; Construction Plans and Specifications; Calculation Brief with Quantity Calculations; Engineers Cost Estimate; Initial On-Site, 50%, 90%, Check Set, and Final Design Meetings; monthly reports and invoicing.</p> <p>Ohio AML - Report and Investigation with cost/benefit analysis to mitigate "worst" acid mine drainage in Ohio. Project included two (2) month hydrologic investigation; impounded water and sediment investigation; chemical treatment (AquaFix or hydrated lime) for AMD discharges; passive treatment options for AMD discharges: eliminating AMD discharge sites by backfilling operations; reducing AMD flows by diverting up-gradient ground waters; cover high infiltration areas; alkaline amendment for coal refuse cover and to support vegetation; open limestone channels; steel slag leach beds; aerobic wetlands; limestone filter beds; limestone polishing leach bed; open limestone drainage ditches and channels; and vegetation plan.</p> <p>Ohio AML - Acid mine drainage caused a failed slope in close proximity to Danehart residence. Design included earthwork mass balance, 75 foot long by 10 foot high pier and lag retaining wall design; subsurface drain to treat AMD; ditch and channel design; and vegetation plan.</p>
<p>1. <i>Glady Fork Mining, Inc. (Permit D-35-82) Bond Forfeiture</i></p>	<p>Active AMD Treatment Facility - Involved the design of a \$3,000,000.00 AMD plant design that incorporated a single treatment train capable of handling 1,000 gallons per minute of alkaline mine drainage with 15 ppm of total iron and included necessary piping and seating for a second treatment train if future needs arise. The project also involved relining existing boreholes to eliminate mine discharge interruptions, design and construction of 2,500 linear feet of gravity fed plant intake line from the boreholes to the plant site, and an active chemical treatment plant. The treatment plant included an aeration basin (concrete), flocculator (concrete), chemical feed building, settling basin (concrete), sludge thickener (concrete), and geo-tube sludge disposal system with overflow catchment and re-treatment capabilities. Treated water limits are 0.50 ppm iron average, 0.75 ppm iron maximum.</p>	<p>CORPORATE EXPERIENCE:</p> <p>Active AMD Treatment Facility - Involved the design of a \$3,000,000.00 AMD plant design that incorporated a single treatment train capable of handling 1,000 gallons per minute of alkaline mine drainage with 15 ppm of total iron and included necessary piping and seating for a second treatment train if future needs arise. The project also involved relining existing boreholes to eliminate mine discharge interruptions, design and construction of 2,500 linear feet of gravity fed plant intake line from the boreholes to the plant site, and an active chemical treatment plant. The treatment plant included an aeration basin (concrete), flocculator (concrete), chemical feed building, settling basin (concrete), sludge thickener (concrete), and geo-tube sludge disposal system with overflow catchment and re-treatment capabilities. Treated water limits are 0.50 ppm iron average, 0.75 ppm iron maximum.</p>
<p>2,3. <i>Weaver Portals and Highwall, Phase I & II.</i></p>	<p>Collapsed portals contribute approximately 95 gpm of pH 3.2, 200 mg/l acidity, 10 mg/l iron, 20 mg/l aluminum, and 2 mg/l manganese to Beaver Creek. Designed passive acid mine drainage treatment systems consisting of Open Limestone Channels and six (6) Limestone Beds with engineered "Aluminator" piping systems. The project also included 97,000 Yards Earthwork, 20 Wet Mine Seals, 25 Ditches, 10 Pipes, Sediment Control Plan, and 35 acre Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>	<p>WVDEP AML - Designed Mine Dewatering and AMD Discharge Treatment Plans.</p>
<p>4. <i>Birds Creek Number Four, Church Creek / Manown Highwall, Racine, Howesville Sites, Sandy Run Highwall and Portals, Price Hill Airshaft / Buildings (Price Hill Complex), Nixon Run AMD, Old Bridgeport Hill, and Arlington (Cox) Drainage</i></p>	<p>Collapsed portals contribute approximately 95 gpm of pH 3.2, 200 mg/l acidity, 10 mg/l iron, 20 mg/l aluminum, and 2 mg/l manganese to Beaver Creek. Designed passive acid mine drainage treatment systems consisting of Open Limestone Channels and six (6) Limestone Beds with engineered "Aluminator" piping systems. The project also included 97,000 Yards Earthwork, 20 Wet Mine Seals, 25 Ditches, 10 Pipes, Sediment Control Plan, and 35 acre Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.</p>	<p>WVDEP AML - Designed Mine Dewatering and AMD Discharge Treatment Plans.</p>
<p>5. <i>Flint Run East Acid Mine Drainage Reclamation:</i></p>	<p>Designed passive acid mine drainage treatment system for "worst" acid mine drainage in the State of Ohio. Water Quality was pH 3.0, acidity from 1,600 to 6,000 mg/l, iron from 200 to 600 mg/l, aluminum from 30 to 250 mg/l, and manganese from 5 to 55 mg/l. Designs include Open Limestone Channels; Sediment Pond, SAPS Pond, Wetland, Horizontal Limestone Bed, Fresh Water Pond, Steel Slag Leach Bed, and three (3) Flush Ponds; up-gradient diversion of ground water around refuse fills; cover high infiltration areas, alkaline amendment for coal refuse cover and vegetation; sediment control design; vegetation design; environmental permits; Construction Plans and Specifications; Calculation Brief with Quantity Calculations; Engineers Cost Estimate; Initial On-Site, 50%, 90%, Check Set, and Final Design Meetings; monthly reports and invoicing.</p>	<p>Ohio AML - Phase I - Designed passive acid mine drainage treatment system for "worst" acid mine drainage in the State of Ohio. Water Quality was pH 3.0, acidity from 1,600 to 6,000 mg/l, iron from 200 to 600 mg/l, aluminum from 30 to 250 mg/l, and manganese from 5 to 55 mg/l. Designs include Open Limestone Channels; Sediment Pond, SAPS Pond, Wetland, Horizontal Limestone Bed, Fresh Water Pond, Steel Slag Leach Bed, and three (3) Flush Ponds; up-gradient diversion of ground water around refuse fills; cover high infiltration areas, alkaline amendment for coal refuse cover and vegetation; sediment control design; vegetation design; environmental permits; Construction Plans and Specifications; Calculation Brief with Quantity Calculations; Engineers Cost Estimate; Initial On-Site, 50%, 90%, Check Set, and Final Design Meetings; monthly reports and invoicing.</p>
<p>6. <i>Flint Run Acid Mine Drainage Reclamation:</i></p>	<p>Report and Investigation with cost/benefit analysis to mitigate "worst" acid mine drainage in Ohio. Project included two (2) month hydrologic investigation; impounded water and sediment investigation; chemical treatment (AquaFix or hydrated lime) for AMD discharges; passive treatment options for AMD discharges: eliminating AMD discharge sites by backfilling operations; reducing AMD flows by diverting up-gradient ground waters; cover high infiltration areas; alkaline amendment for coal refuse cover and to support vegetation; open limestone channels; steel slag leach beds; aerobic wetlands; limestone filter beds; limestone polishing leach bed; open limestone drainage ditches and channels; and vegetation plan.</p>	<p>Ohio AML - Report and Investigation with cost/benefit analysis to mitigate "worst" acid mine drainage in Ohio. Project included two (2) month hydrologic investigation; impounded water and sediment investigation; chemical treatment (AquaFix or hydrated lime) for AMD discharges; passive treatment options for AMD discharges: eliminating AMD discharge sites by backfilling operations; reducing AMD flows by diverting up-gradient ground waters; cover high infiltration areas; alkaline amendment for coal refuse cover and to support vegetation; open limestone channels; steel slag leach beds; aerobic wetlands; limestone filter beds; limestone polishing leach bed; open limestone drainage ditches and channels; and vegetation plan.</p>
<p>7. <i>Danehart Acid Mine Drainage Reclamation:</i></p>	<p>Acid mine drainage caused a failed slope in close proximity to Danehart residence. Design included earthwork mass balance, 75 foot long by 10 foot high pier and lag retaining wall design; subsurface drain to treat AMD; ditch and channel design; and vegetation plan.</p>	<p>Ohio AML - Acid mine drainage caused a failed slope in close proximity to Danehart residence. Design included earthwork mass balance, 75 foot long by 10 foot high pier and lag retaining wall design; subsurface drain to treat AMD; ditch and channel design; and vegetation plan.</p>

<p>12. F (Cont.)</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?</p> <p>Description and Number of Projects: Corporate Experience - Three (3) WVDEP AML Projects, Six (6) Ohio AML Projects; One (1) Watershed Organization - Employee Experience - Three (3) WVAML Projects - Thirteen (13) Bond Forfeiture Projects.</p>	<p>EMPLOYEE EXPERIENCE:</p> <p><i>Randy Calkins, Project Manager, WVAML Design - Thirty One (31) Completed Projects</i></p> <p>WVAML - Completed Designs - 1. Bismark Strip Drainage and Refuse; 2. Francis Drainage and Refuse; 3. Muddy Creek Tipple Complex; 4. Zebs Creek Highway; SPEC REC - 438 Bond Forfeiture Sites;</p> <p>Aerobic Wetland Design: S. Kelly Industries, Allison Engineering, Phase I, Z & F Development Company, Peter Rosati complaint, Kodiak Land Company, Greendale Coal Company, Claytex Coal Company, Kittle Flats, and Pierce Coal and Construction.</p> <p>Anaerobic Wetland Design: Pierce Coal and Construction, Z & F Development Company, Keister Coal Company, and Lobo Capitol, Inc.</p> <p>Anoxic Limestone Drain: Z & F Development Company, Lobo Capitol, Inc., Kittle Flats, Pierce Coal and Construction, and Greendale Coal Company</p>
<p>8. <i>Lake Milton Investigation:</i></p>	<p>Ohio AML - 220 Ac.Ft. Impoundment Investigation to mitigate embankment "piping" leak. Impounded water is lightly buffered AMD that required design of SAPS to mitigate impounded and discharged waters. Design included "pump and treat" and "gravity discharge and treat" options while repairing embankment and constructing SAPS. After repair, discharged waters were used to drive steel slag leach bed for additional alkaline addition to the watershed.</p>	
<p>9. <i>Nutters Tipple D-716:</i></p>	<p>Ohio AML - Alkaline amendment for coal refuse cover and vegetation; encapsulation of coal refuse by subsurface drains and surface diversions to reduce water contact and reaction with coal refuse and eliminate generation of AMD.</p>	
<p>10. <i>Linden AMD Bioremediation:</i></p>	<p>Ohio AML - Developed mapping for design of AMD treatment systems.</p>	<p>SPEC REC: Glady Fork Mining, Permit D-35-82 Bond Forfeiture alkaline mine drainage active chemical treatment facility. Along Stonecoal Creek near Buckhannon West Virginia.</p>
<p>11. <i>Murray City AMD and Art Project:</i></p>	<p>Monday Creek Restoration Watershed Group - Geologic and hydrologic and hydraulic investigation to seat AMD passive treatment systems within and next to a floodplain. Water Quality was pH 2.8, acidity 608 mg/l, iron 106 mg/l, aluminum 47 mg/l, manganese 7 mg/l, and flow of 163 gpm. Design, construction plans, specifications, operating manuals for the Murray City AMD and Art Project including Wet Mine Seals, a Mine Pool Stabilization Pond, Overflow Treatment Pond, two stage SAPS Pond or Vertical Flow Wetland, two Precipitate Ponds, and a Flush Pond to passively treat AMD from two nearby deep mine portals, site drainage ditches and channels, cut/fill grading design, vegetation plan, environmental permits; Construction Plans and Specifications; Calculation Brief with Quantity Calculations; Engineers Cost Estimate; On-Site, 50%, 90%, Check Set, and Final Design Meetings; monthly reports and invoicing.</p>	<p>SPEC REC: Glady Fork Mining, Permit D-35-82 Bond Forfeiture alkaline mine drainage active chemical treatment facility. Along Stonecoal Creek near Buckhannon West Virginia.</p>

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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	
Linder, Gregory, P.E. Buckhannon, WV Office	5	10	0
<p>Brief Explanation of Responsibilities: TEAM ONE LEADER - Project Engineer and Signatory - expression of interest response, Project scope of work document and associated engineering cost estimate, invoicing, and monthly progress reports. Designer - MicroStation, AutoCAD, SurvCAD, and Haestads Operator. Specification Writer, Calculation Brief, Bid Estimate, Microsoft Word and Excel Operator.</p> <p>WV AML Experience: Bergoo Waterline Extension Feasibility Study, I.D. No. 351; Lewis County EDA Waterline Extension Feasibility Study, I.D. No. 374; Scott Road and Findley Road Waterline Extension Feasibility Study, I.D. No. 356; Howesville Sites; Sandy Run Highway and Portals; Laurel Valley (Daniels) Landslide; Price Hill Airshaft/Buildings; Weaver Portals and Highway, Phase I and II; Nixon Run AMD; Tunnelton (Dillsworth) Landslide; Sauls Run Strip and Landslide; SPEC REC: Gladly Fork Mining, Permit D-35-82; WVCA: Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Krout Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project.</p> <p>EOI Experience: Mr. Linder has been involved with the engineering design involving channel restoration, geotechnical analysis, site reclamation, and utility relocation of over 24 bridges, including highway, railway, and pedestrian bridges. Mr. Linder is also experienced with environmental studies including endangered bat studies, watershed management plans, and environmental assessments. Mr. Linder's projects include: U.S. Route 35 Couch to Coast Guard Station; Corridor H, Section 6 Davis to Bismark; North Shore Connector, Allegheny County, PA; Headsville Bridge Replacement, Mineral Co., WV; NJ Route 18 Extension; S.R. 836 Extension, Miami-Dade County, FL; Bridge Design Group B, Allegheny Co., PA; Sharon Heights Connector, Mingo Co., WV; PA Rout 28 Galleria Mall Interchange; Bridge Design Group H, Allegheny Co., PA; Star City Bridge, Monongalia Co., WV; S.R. 0022 over Stoney Run, Westmoreland Co., PA; S.R. 0309 over Church Road, Montgomery Co., PA; S.R. 0056 over Stony Creek, Cambria Co., PA; Rail Rehabilitation Akron and Canton, OH; Cranberry Interchange, Butler Co., PA; Mon/Fayette Expressway, Washington Co., PA; U.S. Route 33, Hocking and Athens Co., OH.</p> <p>Related EOI Experience: Environmental projects include: Enterprise/Interstate 79 Connector Environmental Assessment, including Indiana Bat survey and assessment; Southern Beltway, Allegheny and Washington Co., PA. Short-eared Owl observation; Meldahis Undercut, Wood Co., WV. Soil contamination survey; C&O Flats, Staunton, VA. Propane tank and railroad tie removal; Nelsonville Bat Survey, Nelsonville, OH; North Fork Watershed Management Plan, Pendleton and Grant Cos., WV. Water resources, forest management, wetland documentation, sedimentation and flood prevention; Deegan Lake Dam and Hinkle Lake Dam, Harrison Co., WV. Environmental permit work for dam rehabilitation.</p>			
<p>Education (Degree, Year, Specialization): Fairmont State College, B.S. Biology West Virginia University, B.S. Civil Engineering Level One Natural Stream Design, August 2002 Level Two Natural Stream Design, May 2003 Level Three Natural Stream Design, June 2003 Level Four Natural Stream Design, July 2003</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: American Society of Highway Engineers, Vice-President, North Central WV Chapter Registration (Type, Year, State): Registered Professional Engineer, 2003, West Virginia Registered Professional Engineer, 2006, Pennsylvania Registered Professional Engineer, 2006, Kentucky</p>			

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Parsons, Herbert L. III, P.E. Buckhannon, WV Office	2	15	0

Brief Explanation of Responsibilities: Staff Engineer and Signatory – Hydrology, Site Design. Designer – AutoCAD, SurvCAD, and Haestads Operator. Specification Writer, Calculation Brief, Bid Estimate, Microsoft Word and Excel Operator.

WV/AML Experience: Birds Creek Number 4; Church Creek/Manown Highway; Racine (Bradshaw) Portals; Howesville Sites; Sandy Run Highway and Portals; Hampton Number Four Maintenance.

Related AML Design: Floodplain Management Studies – Lawson Drainage, Morgantown, WV; Partridge Subdivision, Loudin County, Va. Site Design – Evergreen Meadows, Loudin County, Va.; Heiskell Car Wash; Henderson Property, Loudin County, Va.; Holly Meadows, Leesburg, Va. Roads – Raspberry Falls Route 1170 Street Design, Leesburg, Va.; Red Cedar Route 621 Improvements, Leesburg, Va.; RHRE Route 719 Frontage Improvements, Round Hill, Va. Other – Carmike Cinemas Site Palm, Morgantown, WV; St. John The Apostle Catholic church, Leesburg, Va.; Red Cedar Subdivision, Loudin County, Va.; Greenwood Commons Subdivision, Loudin County, Va.; Nestled Oak Subdivision, Morgantown, WV; Raspberry Falls Golf and Hunt Club, Loudin County, Va.; Elco Park Recreation Improvements, Arthurdale, WV; Ida Lee tennis center, Leesburg, Va.; Raspberry Falls Golf and Hunt Club Conference and Training Center, Loudin County, Va.; Holly Meadows Subdivision, Leesburg, Va.

Education (Degree, Year, Specialization): B.S., 1994, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

American Society of Civil Engineers
Engineers and Surveyors Institute
National Society of Professional Engineers
West Virginia Society of Professional Surveyors

Registration (Type, Year, State):

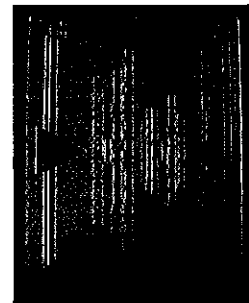
P.E., 2002, West Virginia, 015279
P.E., 1998, Virginia, 033680
P.E., 2003, Pennsylvania, PE070521E
P.S., 2002, West Virginia, 2895

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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE		
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:		
Tonkery, Aaron P., P.E. Buckhannon, WV Office	6	6	0	
<p>Brief Explanation of Responsibilities: Staff Engineer – Develop and perform quantity calculations; Develop Hydrologic and Hydraulic design data; Water, soil, coal, and hazmat sampling; Technical report and calculation brief preparation; Develop data for engineers estimate.</p>				
<p>WV AML experience: Birds Creek Number 4; Church Creek/Manown Highway; Racine (Bradshaw) Portals; Howesville Sites; Sandy Run Highway and Portals; Old Bridgeport Hill Mine Drainage; Hodgesville Waterline Feasibility Study (I.D. No. 275); Charles and Donice McElwain Waterline Feasibility Study (I.D. No. 271)</p>				
<p>Ohio AML Experience: Flint Run East Acid Mine Drainage Reclamation Project; Murray City AMD and Art Project; Danehart Acid Mine Drainage Reclamation, Flint Run Acid Mine Drainage Reclamation, Lake Milton Investigation, Nutters Tipple D-716.</p>				
<p>Related AML Design: SPEC REC: Gladly Fork Mining Permit D-35-82; WVCA: Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project. West Virginia State College – Institute, WV - Economic Assessment of an Anaerobic Digester Pilot Plant. Deer Creek Development – Buckhannon, WV - NPDES permit for this new housing development. Consolidated State Office Building – Huntington, WV - NPDES permit for this new state office building. Lease Offices of Bunker Hill – Bunker Hill, WV - sediment control plan for the office site. Pope Properties – Cross Lanes, WV - sanitary sewer for this apartment complex system. Port Columbus International Airport – Columbus, OH - proposed gravity sewer, allocated to existing and proposed facilities. Also assisted in the design of the pump required to meet the demands of the project</p>				
<p>Education (Degree, Year, Specialization): B.S., 2000, Civil Engineering Technology</p>				
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:</p>				
		<p>Registration (Type, Year, State): E.I., 2003, West Virginia P.E., 2009, West Virginia 18237</p>		

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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	
14	31	0	
<p>Callkins, Randolph M., P.S. Buckhannon, WV Office</p> <p>Brief Explanation of Responsibilities: AML MANAGER - Project Manger and Principal Designer - ALL FIELD AND OFFICE RELATED WORK, including expression of interest response, Project scope of work document and associated engineering cost estimate, invoicing, and monthly progress reports. Designer - AutoCAD, SurVCAD, and Haestads Operator. Specification Writer, Calculation Brief, Bid Estimate, Microsoft Word and Excel Operator.</p> <p>WV AML experience: PROJECTS COMPLETED - Birds Creek Number 4; Church Creek/Manown Highwall; Racine (Bradshaw) Portals; Hampton Number Four Maintenance; Howesville Sites, Sandy Run Highwall and Portals; Wilste-Rosedale Waterline Extension Feasibility Study - I.D. No. 324; Laurel Valley (Daniels) Landslide; Price Hill Airshaft/Buildings; Weaver Portals and Highwall, Phase I and II; Old Bridgeport Hill Mine Drainage, Phase II; Nixon Run AMD; Arlington (Cox) Drainage; Fairmont (Hendrickson) Subsidence; Tunnelton (Dillsworth) Landslide; Sauls Run Strip and Landslide; Taylor Waterline Extension Feasibility Study-I.D. No. 309; Poplar Ridge Waterline Extension Feasibility Study-I.D. No. 298; Summit Park Waterline Extension Feasibility Study-I.D. No. 288; Hodgesville PSD Waterline Extension Feasibility Study-I.D. No. 275; McElwain Waterline Feasibility Study-I.D. No. 271; Adaland Tipple and Refuse; Bismark Strip Drainage and Refuse; Brownton School Refuse; Burdock Highwall; Clarksburg (Ryder) Avenue Drainage; Conners Highwall; Francis Drainage and Refuse; Muddy Creek Tipple Complex; Pringle Drainage; Superior Hydraulics; Thomas (Euclid Avenue) Subsidence; Zebs Creek Highwall; <i>PRELIMINARY DESIGN WORK</i> - Amigo Smokeless Refuse; Austin Highwall; Slab Fork Mine Dump.</p> <p>Ohio AML Experience: Flint Run East Acid Mine Drainage Reclamation Project; Murray City AMD and Art Project; Danehart Acid Mine Drainage Reclamation; Ferris Forfeiture; Flint Run Acid Mine Drainage Reclamation; Glen Castle Reclamation; Lake Milton Investigation; Linden Acid Mine Drainage Bioremediation; Midvale Coal Number 7; Misco Burning Gob; Nutters Tipple D-716.</p> <p>Related AML Design: SPEC REC: Gladly Fork Mining Permit D-35-82; WVCA: Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization; WV Small Operators Assistance Program (25 applications), Maryland Small Operators Assistance Program (1 application), WV Bond Forfeiture Program (438 sites), various waste permits for Corridor H (1.5 permits), Grafton Coal Company (12 years experience with surface and deep mines)</p>			
<p>Education (Degree, Year, Specialization): A.S. Surveying Technology, 1970, Surveying Level One Natural Stream Design, September 2002 Level Two Natural Stream Design, May 2003 401 / 404 Permit Training, WVDOH, January 2003</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: Registration (Type, Year, State): Registered Professional Surveyor, 1979, West Virginia</p>			



1998 Associated Builders and Contractors Award of Excellence for Zebs Creek Highwall AML Design.

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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	
9	10	0	
<p>Brief Explanation of Responsibilities: Survey Manager - ALL FIELD RELATED WORK, including field survey of topographic and planimetric project information. Generate or supplement mapping for the Project area. Designer - AutoCAD, SurvCAD, and Haestads Operator. Specification Writer, Calculation Brief, Bid Estimate, Microsoft Word and Excel Operator.</p> <p>WV AML Experience: Bergoo Waterline Extension Feasibility Study, I.D. No. 351; Lewis County EDA Waterline Extension Feasibility Study, I. D. No. 374; Scott Road and Findley Road Waterline Extension Feasibility Study, I.D. No. 356; WVDEP North Mapping Contract; WVDEP South Mapping Contract; Church Creek/Manown Highway; Racine (Bradshaw) Portals; Hampton Number Four Maintenance; Howesville Sites, Sandy Run Highway and Portals; Laurel Valley (Daniels) Landslide; Price Hill Airshaft/buildings; Weaver Portals and Highway, Phase I and II; Old Bridgeport Hill Mine Drainage, Phase II; Nixon Run AMD; Arlington (Cox) Drainage; Fairmont (Hendrickson) Subsidence; Tunnelton (Dillsworth) Landslide; Sauls Run Strip and Landslide; Adaland Tipple and Refuse; Bismark Strip Drainage and Refuse; Brownton School Refuse; Burdock Highway; Clarksburg (Ryder) Avenue Drainage; Conners Highway; Francis Drainage and Refuse; Muddy Creek Tipple Complex; Pringle Drainage; Superior Hydraulics; Thomas (Euclid Avenue) Subsidence; Zebs Creek Highway; Bridge Run, Camp Run, Philip Thorn Highway, Rainelle AML, SCS Reclamation, Shegon Refuse Pile, Taylor Creek Tipple Complex, Tibbs Run Portal, Masontown.</p> <p>Ohio AML Experience: Flint Run East Acid Mine Drainage Reclamation Project; Murray City AMD and Art Project; Danehart Acid Mine Drainage Reclamation; Ferris Forfeiture; Flint Run Acid Mine Drainage Reclamation; Glen Castle Reclamation; Lake Milton Investigation; Linden Acid Mine Drainage Bioremediation; Midvale Coal Number 7; Misco Burning Gob; Nutters Tipple D-716.</p> <p>Related AML Design: SPEC REC: Glady Fork Mining Permit D-35-82; WVCA: Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project. WV Bond Forfeiture Program (438 sites), various waste permits for Corridor H (15 permits), Clarksburg U.S. Postal Facility, Grant Town Power Plant, U.S. Route 19 Bridge Layout, Salem Bridge Layout, Webster Bridge Layout, Corridor H (4 Sections), Project Impact Bench Marks, numerous property and topographic mapping projects.</p>			
<p>Education (Degree, Year, Specialization): A.S., 1989, Surveying</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: West Virginia Contractor's Association West Virginia Association of Land Surveyors West Virginia Associated Builders Upshur County Chamber of Commerce</p>			
<p>Registration (Type, Year, State): Registered Professional Surveyor, 1994, West Virginia</p>			

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

NAME & TITLE (Last, First, Middle Int.) YEARS OF EXPERIENCE

Steele, Garland W., P.E., P.S. Charleston, WV Office	YEARS OF AML DESIGN EXPERIENCE: 9	YEARS OF AML RELATED DESIGN EXPERIENCE: 34	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 5
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Brief Explanation of Responsibilities: Engineer of Record and Geotechnical Manager - Design and implement subsurface investigation work. In-field testing of physical properties of soil, rock, coal materials, and soil, rock, and coal samples for laboratory physical testing. Data entry and review slope stability analysis results, review physical testing laboratory results.

WVAML experience: Hampton Number Four Maintenance; Price Hill Airshaft/Buildings; Weaver Portals and Highway, Phase I and II; Fairmont (Hendrickson) Subsidence; Tunnelton (Dillsworth) Landslide; Arlington (Cox) Drainage; Sauls Run Strip and Landslide; Old Bridgeport Hill Mine Drainage, Phase II; Hodgesville Waterline Extension Feasibility Study (I.D. No. 275); Charles and Donice McElwain Waterline Feasibility Study (I.D. No. 271). As Director of the Materials Control and Soil and Testing Division of the WV Department of Highways, he coordinated several WVAML projects with WVDOH projects and goals.

Related AML Design: Director, Materials Control, Soil and Testing Division (1965 - 1977), WV Department of Highways, For 12 years, Mr. Steele managed this Division which had six major sections - Structural Steel, Concrete, Bituminous, Soils, Aggregates, and Administrative. The Division was responsible for all physical and chemical materials testing performed by the Department as needed by the Department's Construction, Maintenance, Traffic, Design, and Geotechnical Units. At its peak, Mr. Steele supervised a staff of 275, which included approximately 250 technical and professional personnel. Mr. Steele has made significant contributions to many professional organizations (ASTM, AASHTO, and TRB) involved with developing materials criteria. **SPEC REC:** Gladly Fork Mining Permit D-35-82; **WVCA:** Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project.

Education (Degree, Year, Specialization): B.A., 1956, Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

Member, American Society for Testing and Materials (Board of Director (1992 - 1994), Committee on Standards (Past Chairman), Concrete and Concrete Aggregates (Past Chairman), Road and Paving Materials (Chairman 1982-1983)
 American Association of State Highway and Transportation Officials - Subcommittee on Materials (Past Vice-Chairman), Material Reference Laboratory Council (AMRL) (Past Chairman), Pipe, Culverts, Conduits, and Drains (Past Chairman)
 Member, American Concrete Institute
 Member, West Virginia Society of Professional Engineers
 Member, National Society of Professional Engineers
 Member, West Virginia Society of Civil Engineers
 Member, American Society of Civil Engineers

Registration (Type, Year, State):

Registered Professional Engineer, 1960, West Virginia
 Registered Professional Engineer, 1960, Virginia
 Licensed Professional Surveyor, 1999, West Virginia

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

NAME & TITLE (Last, First, Middle Init.)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	
0	26	26	26
<p>Brief Explanation of Responsibilities: Principal and Technical Advisor – Regulatory requirements and permitting. Mr. Tin has over 26 years of experience in all facets of environmental programs and a demonstrated understanding of ever-changing regulations. He participates extensively on Ohio EPA's program and administrative task forces while maintaining close contact with all levels of staff in Director's and Program Offices, including all five (5) district offices. As Principal, Mr. Tin oversees all projects handled by the project managers in the Environmental Department. He takes the lead position on complex and high profile projects where alternative and innovative solutions are required. In addition, he has extensive experience in providing expert testimony in water and wastewater related cases for PFI's and NPDES permits including public hearings, Environmental Board of Review hearings, and court cases. Mr. Tin served the Ohio Environmental Protection Agency in the following positions:</p> <ul style="list-style-type: none"> • Chief of the Division of Water Pollution Control • Coordinator of the Clean Water Act • Manager of the Public Wastewater Section • Chief of the Division of Construction Grants <p>During his tenure as Chief of the Division of Water Pollution Control, he was responsible for the state's NPDES permits, compliance tracking, enforcement, pretreatment, operator certification, engineering plan review, federal construction grants, and state revolving loan fund programs. Mr. Tin also gained considerable experience in the formulation and implementation of public involvement programs as they pertain to civil works projects. In addition, he was appointed coordinator of the Clean Water Act for Ohio EPA's water programs and was Ohio's representative to the Technical Committee of the Ohio River Valley Sanitation Commission (ORSANCO). Mr. Tin finalized Ohio's standards for package treatment plants (Greenbook), Land Application of Sludge Manual, Compost Policy, and the state's Pretreatment Program. Mr. Tin also assisted the EPA Groundwater Division and the Division of Solid and Hazardous Waste during their establishment, and provided guidance for the development and implementation of both the rule-making process (policy-setting process) and the programs themselves.</p> <p>Education (Degree, Year, Specialization): B.S., Civil Engineering, The Ohio State University, 1973</p> <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:</p> <ul style="list-style-type: none"> • Water Environmental Federation • Ohio EPA-PAG • Surface Water Task Force • Infrastructure Task Force • American Water Works Association • National Society for Professional Engineers • Ohio Society for Professional Engineers • Petroleum Underground Storage Tank Release Compensation Board • Ohio Chamber of Commerce • Columbus Chamber of Commerce • OACE • Chairman, Environmental Committee • Eastern Vocational Schools • Chairman, Environmental Management Curriculum <p>Registration (Type, Year, State): Professional Engineer, Ohio (#43034)</p>			

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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Espy, John W., P.E. Columbus, OH Office	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
	2	24	5

Brief Explanation of Responsibilities: Hydrologist – Channel, Ditch, and Culvert design.

Ohio AML Experience: Price Hill Complex; Murray City AMD and Art Project; Flint Run East Acid Mine Drainage Reclamation; Flint Run Acid Mine Drainage Reclamation; Lake Milton Investigation; Danehart Acid Mine Drainage Reclamation.

Related AML Design: Mr. Espy designed and completed hydrologic and hydraulic calculations on several bridges including: Sawmill Parkway Pedestrian Crossing, Southwest Dublin Traffic Calming, LAW-7-02.17, LIC-40-44.930, FRA-70-13.12, FRA-315-00.30R, SHE-CR-41-3.14, FRA-12-2.94, PER-93-33.26B, MEG-143-13.77, MEG-143-11.76, MEG-143-11.29, Children's Home Road Bridge, PIC/FRA-23-12.92/0.00, CR 23 over Elk Fork, HIG-138-24.36, Rager Road over Georges Creek, COL-30-5.90, CR24A over the Hocking River, CR24 over the Hocking River, HIG-28-2.80, PER-93-12.40, GUE-209-5.73, CR 41 over the Miami River, I670(S) over Conrail, B&O and N&W Railroads, 4th Street Connector over Conrail and B&O Railroads, I670 over Alum Creek, I670 over 5th Street, 5th Street over Alum Creek, UNI-33-0041 L/R, UNI-33-0092, COS-206-0603, Southwest Licking Wastewater Treatment Plant, Frazeyburg Water Treatment Tank, Fisher District Water Tank, Wellington Estates Elevated Water Tank, Southwest Licking Wastewater Treatment Plant, Sanitary Sewer System Improvements, Columbus Zoo, 6 Million Gallon Water Treatment Plant

Education (Degree, Year, Specialization): M.S., 1976, Civil Engineering - B.S., 1970, Civil Engineering
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: Registration (Type, Year, State): Professional Engineer, 1977, Ohio

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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Ionnides, Gerry Columbus, OH Office	3	17	10
Brief Explanation of Responsibilities: Laboratory Manger including organic and inorganic soil, rock, and water analysis.			
Ohio AML Experience: Flint Run East Acid Mine Drainage Reclamation Project; Murray City AMD and Art Project; Danehart Acid Mine Drainage Reclamation; Flint Run Acid Mine Drainage Reclamation; Lake Milton Investigation; Midvale Coal Number 7; Nutters Tippie D-716.			
WVAML experience: Old Bridgeport Hill Mine Drainage; Hodgesville Waterline Feasibility Study (I.D. No. 275); Charles and Donice McElwain Waterline Feasibility Study (I.D. No. 271).			
Related AML Design: Laboratory Chief of Ohio EPA, Interim Director Ohio EPA, Assistant Director Ohio EPA, Ohio EPA Division of Environmental Services Chief, Ohio EPA Environmental Manager IV, Environmental Scientist III, Chemist II and Environmental Scientist II			
Education (Degree, Year, Specialization): MBA, 1995, Business - M.S., 1975, Ohio State University - B.S., 1970, Ohio State University			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:		Registration (Type, Year, State): N/A	

13. PERS \L HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE RESPONSIBLE FOR AML DESIGN (Furnish complete data but keep tentials)

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Schnell, Michael, P.E. Columbus, OH Office	YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 14	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities: Design Engineer and Technical Advisor

Related AML Design: Mr. Schnell has 13 years of experience in the field of environmental and mining engineering. He has an additional 12 years of highway and civil engineering design experience that encompasses roadways, drainage structures, waterlines, catch basins, etc. Mr. Schnell was extensively involved in all facets of coal mine operations and reclamation in the State of Kentucky. His reclamation duties involved the design and reclamation of surface and deep mines, which included the design of dams, large earth moving projects, surveying of underground mines, and dealing with several government agencies regulating the mining industries, including OSM, MSHA, AML, and KY DNR. He served as Chief Engineer for five coal companies in Southeastern Kentucky with one of his primary responsibilities being to ensure that each company complied with all applicable regulations.

His project experience and responsibilities included the following:

- Mine structures
- Tipples
- Processing (cleaning) plants
- Deep and strip mine permits
- In charge of all surveying
- Underground surveys
- Maintained mine maps
- Dealing with all regulatory authorities
- Using and writing industry-specific computer programs
- Strip mines – largest was 500 acres. Mr. Schnell was responsible for all the reclamation design, sediment control ponds, hollow fills, mountaintop removals

King Coal Company, Arjay KY: As Chief Engineer, Mr. Schnell coordinated all permitting and mapping activities associated with surface and underground coal mining operations.

Design of Coal Mining Operations, Kentucky: As Associate Engineer, Mr. Schnell was extensively involved in all technical designs of surface and underground mining operations for various clients in Kentucky.

Education (Degree, Year, Specialization): A.S., 1967, Southern Technical Institute, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS: Registration (Type, Year, State): Registered Professional Engineer, 1975 Kentucky (#11705)

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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	6	YEARS OF AML RELATED DESIGN EXPERIENCE:	Varies
YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	Varies		
<p>Brief Explanation of Responsibilities: CADD Draftsperson including generation of topographic mapping or supplementation of existing mapping, cross sections, detail sheets, tax map overlays, Project Manager or Staff Engineer design compilation. AutoCAD, SurvCAD, and Haestads Operator. Calculation Brief Details and Drawings, Microsoft Word and Excel Operator.</p>			
<p>WV AML experience: Bergoo Waterline Extension Feasibility Study, I.D. No. 351; Lewis County EDA Waterline Extension Feasibility Study, I.D. No. 374; Scott Road and Findley Road Waterline Extension Feasibility Study, I.D. No. 356; Birds Creek Number 4; WVDEP Mapping Contract - South Region; WVDEP Mapping Contract - North Region; Church Creek/Manown Highway; Racine (Bradshaw) Portals; Hampton Number Four Maintenance; Howesville Sites, Sandy Run Highway and Portals; Wilsie-Rosedale Waterline Extension Feasibility Study - I.D. No. 324; Laurel Valley (Daniels) Landslide; Price Hill Airshaft/Buildings; Weaver Portals and Highway, Phase I and II; Old Bridgeport Hill Mine Drainage, Phase II; Nixon Run AMD; Arlington (Cox) Drainage; Fairmont (Hendrickson) Subsidence; Tunnelton (Dillsworth) Landslide; Sauls Run Strip and Landslide; Taylor Waterline Extension Feasibility Study-I.D. No. 309; Poplar Ridge Waterline Extension Feasibility Study-I.D. No. 298; Summit Park Waterline Extension Feasibility Study-I.D. No. 288; Hodgesville PSD Waterline Extension Feasibility Study-I.D. No. 275; McElwain Waterline Feasibility Study-I.D. No. 271; Bridge Run; Camp Run; Philip Thorn Highway; Rainelle AML; SCS Reclamation; Shegon Refuse Pile; Taylor Creek Tipple Complex; Tibbs Run Portal; Masontown AML.</p>			
<p>Ohio AML Experience: Flint Run East Acid Mine Drainage Reclamation Project; Murray City AMD and Art Project; Danehart Acid Mine Drainage Reclamation; Ferris Forfeiture; Flint Run Acid Mine Drainage Reclamation; Glen Castle Reclamation; Lake Milton Investigation; Linden Acid Mine Drainage Bioremediation; Midvale Coal Number 7; Misco Burning Gob; Nutters Tipple D-716.</p>			
<p>Related AML Design: SPEC REC: Gladly Fork Mining Permit D-35-82; WVCA: Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project. Various waste permits for Corridor H (15 permits), numerous topographic and property surveys, Pope Properties Waterline and Wastewater Extension, Nitro, WV</p>			
Education (Degree, Year, Specialization):		CADD Operators - B.S., varies, Civil Engineering Technology, 1 Operator - B.S. 1996, Engineering Technology, Others - Experience	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:		Registration (Type, Year, State): N/A	

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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
<p>39 Survey Crews</p> <p>Brief Explanation of Responsibilities: Three (3) fully equipped survey crews can obtain field data to develop topographic mapping or to supplement available aerial mapping. These crews can also use GPS survey techniques to bring horizontal and vertical control to the Project site or control for aerial photography operations. All filed data is electronically gathered, to eliminate errors and blunders, and can be directly downloaded into our computer workstations. Field to finish modules of our SurvCADD software recognize field entered codes that control line work ensuring proper points are connected, proper break lines area established prior to contour generation, and greatly reduces CADD time.</p> <p>WV AML experience: Birds Creek Number 4; WVDEP North Mapping Contract; WVDEP South Mapping Contract; Church Creek/Manown Highwall; Racine (Bradshaw) Portals; Hampton Number Four Maintenance; Howesville Sites, Sandy Run Highwall and Portals; Laurel Valley (Daniels) Landslide; Price Hill Airshaft/Buildings; Weaver Portals and Highwall, Phase I and II; Old Bridgeport Hill Mine Drainage, Phase II; Nixon Run AMD; Arlington (Cox) Drainage; Fairmont (Hendrickson) Subsidence; Tunnelton (Drillsworth) Landslide; Sauls Run Strip and Landslide; Taylor Waterline Extension Feasibility Study-I.D. No. 309; Poplar Ridge Waterline Extension Feasibility Study-I.D. No. 298; Summit Park Waterline Extension Feasibility Study-I.D. No. 288; Hodgesville PSD Waterline Extension Feasibility Study-I.D. No. 275; McElwain Waterline Feasibility Study-I.D. No. 271; Bridge Run; Camp Run; Philip Thorn Highwall; Rainelle AML; SCS Reclamation; Shegon Refuse Pile; Superior Hydraulics; Taylor Creek Tipple Complex; Tibbs Run Portal; Masontown.</p> <p>Ohio AML Experience: Flint Run East Acid Mine Drainage Reclamation Project; Murray City AMD and Art Project; Danehart Acid Mine Drainage Reclamation; Ferris Forfeiture; Flint Run Acid Mine Drainage Reclamation; Glen Castle Reclamation; Lake Milton Investigation; Linden Acid Mine Drainage Bioremediation; Midvale Coal Number 7; Misco Burning Gob; Nutters Tipple D-716.</p> <p>Related AML Design: SPEC REC: Gladly Fork Mining Permit D-35-82; WVCA: Fisher-Mill Creek Bank Stabilization, Laurel Lake Sediment Removal, Kraut Creek H&H Investigation, Harmons Creek Bank Stabilization, Parchment Valley Bank Stabilization, North Fork Hughes River Bank Stabilization, Spencer Flood Plain Improvement Study, Logan County Flood Plain Improvement Project; various waste permits for Corridor H (15 permits), numerous topographic and property surveys, Pope Properties Waterline and Wastewater Extension, Nitro, WV</p>	8	30+	30+
Education (Degree, Year, Specialization):		12 Party Chiefs – Associate Degrees Civil Engineering or Surveying Technology.	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:		Registration (Type, Year, State): N/A	

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

275 Computer Workstations
3 Robotic Total Stations and 18 Surveying Electronic Total Stations
18 Field Survey Data Collectors
6 Survey Grade GPS Survey Instruments (complete with base and 2 rovers each)
AutoCAD Versions 2008, 2006, 2002, 2000I, Map 4.0, Map 5.0, version 14.0
SurvCADD versions 2008, 2006, XML2, CES, 98
Eagle Point Engineering Software
AutoCAD Land Development
Bentley MicroStation with InRoads
ESRI ArcView GIS (Version 3.2) and Mapping Software (Version 8.3)
KY Pipe Water and Sewer Line Software
Haestads Water CAD Water and Sewer Line Software
Haestads Culvert Master, Flow Master, Storm CAD
Terrain Navigator with seamless WV 7.5' USGS Quads and Sure Maps by Titan Systems
North American Green Erosion Control Blanket Software
Microsoft Office, including Word and Excel
Microsoft Project Scheduling Software
Primavera P3 Scheduling Software
Corel 98 Suite
Numerous HP, Canon, and Toshiba Ink Plotters and Printers
XSTABL version 5.2 Slope Stability Software

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
Birds Creek Number Four, Preston County, WV	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Phillippi, WV 26416	Reclamation design with 35,000 Cubic Yards of Excavation, eight (8) wet mine seals including five (5) bat gate designs; and 18 acres of revegetation; Topographic Surveying; Generation of Construction Mapping; Soil Testing; Hydraulic Studies and design for Ditches and Pipes; Sediment Control Design; Revegetation Plan. Preliminary and Final Design; Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.	N/A	60%
Bergoo Waterline Extension Feasibility Study, I.D. No. 351	Mr. Stephen McBrayer West Virginia Department of Environmental Protection Office of Abandoned Mine Lands 601 57th Street, SE - Box 20 Charleston, West Virginia 25304	12.0 Mile Waterline Extension Feasibility Study - I.D. No. 351, involving 350 to 400 Residents. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; Ground Water Contamination Mitigation Alternatives with Estimated Construction Costs; and Initial On-Site Meeting, Preliminary Report, Final Report, Monthly Reports, and Invoicing.	\$1,788,000	100%
Lewis County EDA Waterline Extension Feasibility Study, I.D. No. 374	Mr. Stephen McBrayer West Virginia Department of Environmental Protection Office of Abandoned Mine Lands 601 57th Street, SE - Box 20 Charleston, West Virginia 25304	15.2 Mile Waterline Extension Feasibility Study - I.D. No. 374, involving 110 Residents. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; and Initial On-Site Meeting, Preliminary Report, Monthly Reports, and Invoicing.	\$2,276,000	100%
Scott Road and Findley Road Waterline Extension Feasibility Study, I.D. No. 356	Mr. Stephen McBrayer West Virginia Department of Environmental Protection Office of Abandoned Mine Lands 601 57th Street, SE - Box 20 Charleston, West Virginia 25304	1.5 Mile Waterline Extension Feasibility Study - I.D. No. 356, involving 7 Residents. Surface and Ground Water Testing and Reporting; Public and Private Record Search; Hydrologic and Geologic Field and Record Investigation and Report; Water Analyses Interpretation and Evaluation; Ground Water Contamination Mitigation Alternatives with Estimated Construction Costs; and Initial On-Site Meeting, Preliminary Report, Final Report, Monthly Reports, and Invoicing.	\$259,600	100%
WVDEP North Mapping Contract, Statewide Northern Coal Producing Counties	Mr. Gregg Smith, P.E. Mr. Tim Lemasters, P.E. West Virginia Department of Environmental Protection 209 South Main Street Phillippi, WV 26416	Set Vertical and Horizontal Control for Aerila Mapping and Project Control on eight sites. Performed Field Survey to verify aerial mapping and locate unmapped planimetric features. Monthly Reports and Invoicing.	N/A	On-going

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
WVDEP South Mapping Contract, Statewide Northern Coal Producing Counties	Mr. Dean Stiltner, Project Manager Mr. Mark Proctor, P.E. West Virginia Department of Environmental Protection 116 Industrial Drive Oak Hill, WV 25901	Set Vertical and Horizontal Control for Aerial Mapping and Project Control on twenty one sites. Performed Field Survey to verify aerial mapping and locate unmapped planimetric features. Monthly Reports and Invoicing.	N/A	On-going
Church Creek/ Manown Highwall, Kingwood, Preston county, West Virginia	Mr. Tim Lemasters, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Reclamation design of four (4) sites with 11,800 linear feet of highwall and 220,000 cubic yards of earthwork with twenty three (23) wet mine seals, including two (2) bat gate designs; and 85 acres of revegetation. Topographic Surveying; Subsurface and Geological Investigation (nine (9) piezometers installed). Construction Mapping; Water and Soil Testing; Preliminary and Final Design are on-going. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing will be completed.	\$2,500,000	100% (Design)
Racine (Bradshaw) Portals, Racine, Boone County, West Virginia	Mr. Mark Proctor, P.E., Project Manager West Virginia Department of Environmental Protection 116 Industrial Drive Oak Hill, WV 25901	Reclamation design of six (6) sites with 2,500 cubic yards of earthwork with sixteen (16) wet mine seals, including eight (8) bat gate designs; and 5 acres of revegetation. Topographic Surveying. Construction Mapping; Soil Testing; Preliminary and Final Design are on-going. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing will be completed.	\$410,000	100% (Design)
Hampton Number Four Maintenance Clothier, Boone County, WV	Mr. Dean Stiltner, Project Manager West Virginia Department of Environmental Protection 116 Industrial Drive Oak Hill, WV 25901	Surveying and Mapping 16 acre site; 25,000 cubic yards mass balance; 2,700 linear foot of ditches, bridge upgrade, and revegetation. Subsurface Geological Investigation; Surface and Groundwater Testing and Reporting; Mapping; Hydrologic and Hydraulic Studies and design for Ditches; Sediment Control Design; Revegetation Plan. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing.	\$850,000	100% (Design) 0% (Constr.)
Howesville Sites and Sandy Run Highwall and Portals Kingwood District, Preston County, WV	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Reclamation design of three (3) sites with 8,000 linear feet of highwall with twenty two (22) wet mine seals; and 45 acres of revegetation. Topographic Surveying; Subsurface and Geological Investigation (eight (8) piezometers installed) are complete. Mapping; Water and Soil Testing; Preliminary and Final Design are on-going. Construction Plans and Specifications; Engineers Cost Estimate, Bid Schedule, and Calculation Brief; Initial On-Site, Preliminary Design, Pre-Bid, and Pre-Construction Meetings; Monthly Reports and Invoicing will be completed.	\$2,600,000	100% (Design) 90% (Constr.)

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
Wilsie-Rosedale, Sugar Creek PSD Waterline Extension Feasibility Study - I.D. No. 324	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Groundwater and Surface Water Investigation; Pre and Post SMRCA Mining Investigation; Resident Interviews, Mapping; Preliminary Investigation and Report; AML & R Grant Supporting Documents; Mapping and CADD	N/A	100% (Design)
Laurel Valley (Daniels) Landslide West Milford, Harrison County, WV	Mr. Ron Lane, Emergency Program Manager West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Surveying and Mapping 4.0 acre Residential Area; 13,000 Yards Mass Balance; Geotechnical Subsurface Investigation; Existing and Proposed Slope Stability Analyses; Regrading, Highway Backfill, H&H Investigation; Two Ditches; Four Pipes; Gravel and Concrete Driveway and Road Repair Design; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$284,000.00	100% (Design) 100% (Constr.)
Price Hill Airshaft/Buildings (Price Hill Complex) Raleigh County, WV	Mr. Dean Stiltner, Project Manager West Virginia Department of Environmental Protection 116 Industrial Drive Oak Hill, WV 25901	Surveying and Mapping 1.5 Acre Site; 1,300 Yards Mass Balance; Suspected Shaft Investigation; 2 Vertical Deep Mine Seals; Debris Removal Plan; Structure Demolition; Refuse Removal Plan; Sediment Control Design; Ditch Design; H&H Investigation Existing Pipes; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$425,000	100% (Design) 100% (Constr.)
James & Amanda Taylor Waterline Feasibility Study - I.D. No. 309	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Groundwater and Surface Water Investigation; Pre and Post SMRCA Mining Investigation; Resident Interviews, Mapping; Preliminary Investigation and Report; AML & R Grant Supporting Documents; Mapping and CADD	\$512,000	100% Study 0% (Design)
Fairmont (Hendrickson) Subsidence WVAML Fairmont, Marion County, WV	Mr. Michael Richardson, P.M. West Virginia Department of Environmental Protection 601 57th Street, SE - Box 20 Charleston, WV 25304	Surveying and Mapping; Subsurface Investigation; Previous Reports Compilation; Pre and Post SMRCA Mining Investigation; Resident Interviews, Report of Findings; Mitigation Alternatives; Updates and Invoicing.	Unknown	100%
Glady Fork Mining, Inc. (Permit D-35-82) Bond Forfeiture Near Buckhannon, Upshur and Lewis Counties, WV	Mr. Charles Miller West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Alkaline Mine Drainage Treatment Facility - \$3,000,000.00 AMD plant design that incorporated a single treatment train capable of handling 1,000 gallons per minute of alkaline mine drainage with 15 ppm of total iron and included necessary piping and seating for a second treatment train if future needs arise. Relining existing boreholes to eliminate mine discharge interruptions, design and construction of 2,500 linear feet of gravity fed plant intake line from the boreholes to the plant site, and an active chemical treatment plant. The treatment plant included an aeration basin (concrete), flocculator (concrete), chemical feed building, settling basin (concrete), sludge thickener (concrete), and geo-tube sludge disposal system with overflow catchment and re-treatment capabilities. Treated discharge 0.50 ppm iron average, 0.75 ppm iron maximum.	\$3,000,000	99%

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

PROJECT NAME , TYPE, AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Weaver Portals and Highwall, Phase I and II WVAML Near Junior, Randolph County, WV	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Surveying and Mapping; 97,000 Yards Mass Balance; 20 Wet Mine Seals, Six Limestone Beds with Flush Ponds, H&H Studies for 25 Ditches, and 10 Pipes; Sediment Control Design; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$ 2,400,000	100% (Design 100% Complete)
Summit Park PSD Waterline Extension Feasibility Study (I.D. No. 288) WVAML Bridgeport, Harrison County, WV	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Groundwater and Surface Water Investigation; Pre and Post SMRCA Mining Investigation; Resident Interviews, Mapping; Preliminary Investigation and Report; AML & R Grant Supporting Documents; Mapping and CADD	\$250,000.00 to \$1,100,000.00 (Estimated)	100% Study (Design 0% Complete)
Tunnelton (Dillsworth) Landslide WVAML Tunnelton, Preston County, WV	Mr. Michael Richardson, P.M. West Virginia Department of Environmental Protection 601 57 th Street, SE - Box 20 Charleston, WV 25304	Surveying and Mapping; 84 foot long by 18 foot high Gabion Basket Retaining Wall Design; Groundwater and Surface Water Investigation; H&H Studies for 214 feet of Subsurface Drains, 2 Pipes, Manhole, and Drop Inlet; Traffic Control and Pavement Repair Plan, Sediment Control Design; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$323,000	100%
Arlington (Cox) Drainage Clarksburg, Harrison County, WV	Mr. Michael Richardson, P.M. West Virginia Department of Environmental Protection 601 57 th Street, SE - Box 20 Charleston, WV 25304	Surveying and Mapping; Two (2) Wet Mine Seal Designs; Groundwater and Surface Water Investigation; H&H Studies for 198 feet of Subsurface Drains, 2 Ditches, and 1 Pipe; Mine Dewatering and AMD Treatment Plan, Sediment Control Design; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$294,000	100%
Sauls Run Strip and Landslide Near Weston, Lewis County, WV	Mr. Michael Richardson, P.M. West Virginia Department of Environmental Protection 601 57 th Street, SE - Box 20 Charleston, WV 25304	Surveying and Mapping; Subsurface Investigation; 59,350 Yards of Balanced Earthwork; H&H studies and design for 2,764 feet of Ditches, 500 feet of Subsurface Drains, five (5) Pipes, and two (2) Headwalls; Traffic Control and Pavement Repair Plan; Sediment Control Design; and Vegetation design. Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$980,000	100%
Charles and Donice McElwain Waterline Extension Feasibility Study (I.D. No. 271) WVAML Cowen, Webster County, WV	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Groundwater and Surface Water Investigation; Pre and Post SMRCA Mining Investigation; Resident Interviews, Mapping; Preliminary Investigation and Report; AML & R Grant Supporting Documents; Mapping and CADD	\$104,000	100% (Study) (Design 0% Complete)

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD (Cont.).				
PROJECT NAME, TYPE, AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Charles and Donice McElwain Waterline Extension Feasibility Study (I.D. No. 271) WVAML Cowen, Webster County, WV	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Groundwater and Surface Water Investigation; Pre and Post SMRCA Mining Investigation; Resident Interviews, Mapping; Preliminary Investigation and Report; AML & R Grant Supporting Documents; Mapping and CADD	\$104,000	100% (Study) (Design 0% Complete)
Hodgesville PSD Waterline Extension Feasibility Study (I.D. No. 275) WVAML Buckhannon, Upshur County, WV	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Groundwater and Surface Water Investigation; Pre and Post SMRCA Mining Investigation; Resident Interviews, Mapping; Preliminary Investigation and Report; AML & R Grant Supporting Documents; Mapping and CADD	\$237,000	100% (Study) (Design 0% Complete)
Old Bridgeport Hill Mine Drainage, Phase II; WVAML Bridgeport, Harrison County, WV	Mr. Gregg Smith, P.E. West Virginia Department of Environmental Protection 209 South Main Street Philippi, WV 26416	Surveying and Mapping; Construction Water Treatment and Controlled Release Plan, H&H Studies for Ditch, Pipe, and Drop Inlet Designs; design four Wet Mine Seals, Sediment Control Design; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$311,500	100%
Flint Run East Acid Mine Drainage Reclamation Project; Ohio AML; Wellston, Jackson County, Ohio	Ms. Nancy Seger, P.E. Ohio Department of Natural Resources Division of Mineral Resources Management 1855 Fountain Square Court, Building H-2 Columbus, OH 43224	Mapping; Passive Acid Mine Drainage Treatment Design; H&H Studies for Impoundments, Channels, Ditch Designs; Sediment Control Design; Environmental Permits; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$2,041,000	100%
Murray City AMD and Art Project; Watershed AML Project; Murray City, Hocking County, Ohio	Mr. Mike Steinmaus, Director Monday Creek Restoration Project P.O. Box 129 New Straitsville, OH 43766	Mapping; Passive Acid Mine Drainage Treatment Design; H&H Studies for Impoundments, Channels, Ditch Designs; Sediment Control Design; Environmental Permits; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$650,000	0% (Design 100% Complete)
Flint Run Acid Mine Drainage Reclamation Project; Ohio AML; Wellston, Jackson County, Ohio	Ms. Nancy Seger, P.E. Ohio Department of Natural Resources Division of Mineral Resources Management 1855 Fountain Square Court, Building H-2 Columbus, OH 43224	Mapping; Passive Acid Mine Drainage Treatment Design options based on cost/benefit analysis; H&H Studies for Impoundments, Channels, Ditch Designs; Sediment Control Design; Environmental Permits; Vegetation Design; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$4,710,000	100%

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

PROJECT NAME, TYPE, AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Fisher - Mill Creek Bank Stabilization Project Ripley, Jackson County, WV	Mr. Gene Saurborn, P.M. West Virginia Conservation Agency 4720 Brenda Lane Charleston, WV 25305	Surveying and Mapping; Subsurface Investigation Plan; Geotechnical Testing; Construction Plans and Specifications for 148-foot long Drilled Pile and Lag Wall; Bid Schedule; Engineers Estimate; Pre-Bid and Pre-Construction; Construction Inspection.	\$284,000	100%
Laurel Lake Sediment Project Lenore, Mingo County, WV	Mr. Gene Saurborn, P.M. West Virginia Conservation Agency 4720 Brenda Lane Charleston, WV 25305	Surveying and Mapping; Subsurface Investigation Plan; Hydrographic Surveying; Geotechnical Testing; Construction Plans and Specifications for dredging 50,000 C.Y.; Park Access Road; Bid Schedule; Engineers Estimate	\$1,000,000	100%
Berger - Harmon Creek Bank Stabilization Project Near Weirton, WV	Mr. Gene Saurborn, P.M. West Virginia Conservation Agency 4720 Brenda Lane, Building Five Charleston, WV 25305	Surveying and Mapping; Subsurface Investigation and Report of Findings; Alternatives for Mitigation including Buy-Out and 45-foot long by 12-foot high Gabion Basket Wall Design; Engineers Estimate	N/A	100%
Danehart Acid Mine Drainage Reclamation Project; Ohio AML; Yorkville, Belmont County, Ohio	Mr. Scott McDiffitt, E.I. Ohio Department of Natural Resources Division of Mineral Resources Management 2050 East Wheeling Avenue Cambridge, OH 43725	Mapping; Subsurface Investigation; Geotechnical Testing; H&H studies for Channels, Ditch, Subsurface Drain Designs; Retaining Wall Design; Sediment Control Design; Environmental Permits; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$50,950	100%
Nutters Tipple D-716; Bond Forfeiture Reclamation Project; New Straitsville, Perry County, Ohio	Mr. Ron Trivisonno, P.E. Ohio Department of Natural Resources Division of Mineral Resources Management 1855 Fountain Square Court, Building H-2 Columbus, OH 43224	Mapping; Subsurface Investigation; Geotechnical Testing; H&H studies for Channels, Ditch, Subsurface Drain Designs; Sediment Control Design; Environmental Permits; Vegetation Design; Construction Plans and Specifications; Calculation Brief; Engineers Estimate; Reports and Invoicing.	\$96,247	100%
Weatherford Entrance Road Design Upshur Co., WV	Weatherford International, Ltd. 300 Summers St., Suite 820 Charleston, WV 25301	Surveying and Mapping, Road Approach Permit, Construction Plans and Specifications, Calculation Brief, Engineers Estimate, Reporting and Invoicing	\$750,000	75%
Upper Tract Bridge WVDOH Bridge Project Upper Tract, Pendleton County, WV	Mr. Chad Lowther, P.E. West Virginia Division of Highways Building 5, Room A317 1900 Kanawha Boulevard Charleston, WV 25305	Surveying and Mapping, H & H Study on South Branch of Potomac River, Road Approach and Bridge Design, Construction Plans and Specifications, Calculation Brief, Engineers Estimate, Reporting and Invoicing	\$1,400,000	100%
Route 35 Project No. U327-35-12.02 WVDOH Road Project Couch to Coast Guard Road Mason County, WV	Mr. Chad Lowther, P.E. West Virginia Division of Highways Building 5, Room A317 1900 Kanawha Boulevard Charleston, WV 25305	Surveying and Mapping, H & H Study Box Culverts, Pipes, Road Design, Construction Plans and Specifications, Calculation Brief, Engineers estimate, Reporting and Invoicing	\$14,000,000	0% (Design 99% Complete)

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

PROJECT NAME, TYPE, AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Buffalo Bridge WVDOH Bridge Project Buffalo, Putnam County, WV	Mr. Steve Campbell West Virginia Division of Highways District One 1334 Smith Street Charleston, WV 25305	Surveying and Mapping, H & H Study on Cross Creek, Road Approach and Bridge Design, Construction Plans and Specifications, Calculation Brief, Engineers estimate, Reporting and Invoicing	\$1,770,000	100%
Appalachian Corridor H, Section 6, Davis to Bismark; Four Lane Roadway; Grant County, WV	WVDOH, Division of Highways 1900 Kanawha Boulevard, East Charleston, WV 25305	Surveying, Subsurface Investigation, Slope Stability, H&H Studies for Box Culverts, Pipes, Construction Plans and Specifications for Four Lane Roadway	\$14,000,000	0% (Design 75% Complete)
Mile Branch Truss Bridge WVDOH Bridge Project Ieager, McDowell County, WV	Mr. Chad Lowther, P.E. West Virginia Division of Highways Building 5, Room A317 1900 Kanawha Boulevard Charleston, WV 25305	Surveying and Mapping, H & H Study on Dry Fork, Road Approach and Bridge Design, Construction Plans and Specifications, Calculation Brief, Engineers estimate, Reporting and Invoicing	\$500,000	100%
Davis Creek Bridge Construction Inspection	WVDOH Building 5, Room A317 1900 Kanawha Boulevard Charleston, WV 25305	I-64 Construction Observation	\$563,000	100%
MCS&T Source Inspection	WVDOH Building 5, Room A317 1900 Kanawha Boulevard Charleston, WV 25305	On-Site Materials Control Sampling and Testing	\$50,000	60%
Statewide Survey Contract	WVDOH Building 5, Room A317 1900 Kanawha Boulevard Charleston, WV 25305	Surveying on Task Order Basis for Topographical Mapping of Bridges, Intersections, and Safety Issues.	\$750,000	60%
Coalfields Expressway	WVDOH Building 5, Room A317 1900 Kanawha Boulevard Charleston, WV 25305	Quantity Surveying on 13 miles of Four Lane Design/Build Highway	\$300,000	50%
Greenland Gap Wind Mills	M. A. Mortenson P.O. Box 710 Minneapolis, MN 55440	Surveying, Access Road Design, Wind Mill Pad Design, Drainage Design, E & S Storm Water Management, NPDES Permitting, QA/QC	\$300,000,000	Design 100% Survey 100% QA/QC 100%
TOTAL NUMBER OF PROJECTS: 47 (Others available upon request)			TOTAL ESTIMATED CONSTRUCTION COSTS: \$ 517,000,000+	

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

PROJECT NAME, TYPE, AND LOCATION	NATURE OF YOUR FIRM'S RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRM'S RESPONSIBILITY
Christopher Hall Science Building Expansion; Buckhannon, West Virginia	Surveying, Subsurface and Geotechnical Investigation, Site design, Balanced Earthwork Grading, Utility Hook-ups, Drainage	West Virginia Wesleyan College c/o Zimmer Gunsul Frasca 1800 K Street Suite 200 Washington, DC 20006	2003	\$7,000,000.00	\$24,000.00
Summers County Board of Education New Talcott Elementary School Talcott, West Virginia	Surveying, Subsurface and Geotechnical Investigation, Site design, Balanced Earthwork Grading, Utility Design, Drainage	J. Dan Sneed & Associates, Inc. 101 North Kanawha Street Suite 203 Beckley, West Virginia 25801	2007	Unknown	\$22,500.00

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

PROJECT NAME & TYPE	LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
ASTM Transaction screening & Phase I Environmental Assessment	Buckhannon, WV	A E, Inc.	\$20,500	2005	N/A
Laurel Lake Remediation, Mingo County, WV	Mingo County WV	WV Conservation Agency	N/A	2005	
Dolls Run Slab Bridge		Gannett Fleming	\$27,000		Yes
Glick Avery Marley Roundabout	Dublin, Ohio	City of Dublin 5800 Shier-Rings Rd. Dublin, OH 43016	\$1,400,000	2005	Yes
Maxtown Road Extension	Westerville, Ohio	City of Westerville 64 East Walnut Street Westerville, Ohio 43081	\$3,500,000	2005	Yes
LUC-24-13.98 - Pedestrian Bridge	Toledo, Ohio	Toledo MetroParks Toledo, OH	\$1,200,000	2005	Yes
Spindler Road		MI Homes 3 Easton Road Columbus, Ohio 43219	\$600,000	2005	Yes
Laurel Lake Remediation	Mingo County, West Virginia	WV Conservation Agency	N/A	2005	Yes
Mill Creek Bank Stabilization	Jackson County, West Virginia	WV Conservation Agency	N/A	2005	Yes
Harmans Run Bank Stabilization	West Virginia	WV Conservation Agency	N/A	2005	Yes
Tunnelton (Dillsworth)Landslide	Preston, County, West Virginia	WVDEP-Office of Abandoned Mine Lands	N/A	2005	Yes
Sauls Run Strip & Landslide Reclamation	Lewis County, West Virginia	WVDEP-Office of Abandoned Mine Lands	N/A	2005	Yes
Arlington (Cox) Drainage,	Harrison County,	WVDEP-Office of Abandoned Mine	N/A	2005	Yes

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

PROJECT NAME & TYPE	LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Harrison County, WV	West Virginia	Lands			
Cairo Bank Stabilization	West Virginia	WV Conversation Agency-Little Kanawha District	N/A	2005	Yes
Sunbury Village Square Signals	Sunbury, Ohio	Village of Sunbury PO Box 508 Sunbury, Ohio 43074	\$2,700 (fee)	2005	Yes
LUC-24-13.98 - Pedestrian Bridge	Toledo, OH	Toledo Metro Parks 5100 West Central Ave Toledo, OH 43615	\$1,200,000	2006	Yes
3rd Avenue Improvements	Huntington, WV	City of Huntington 800 5th Avenue Huntington, WV 25701	\$3,200,000	2006	Yes
Southwest Traffic Calming	Dublin, Ohio	City of Dublin 5800 Shier-Rings Road Dublin OH 43017	\$1,500,000	2006	????
Tara Hill Traffic Calming	Dublin, OH	City of Dublin 5800 Shier-Rings Road Dublin, OH 43017	\$770,000 \$267,000 (fee)	2006	Yes
Britton Parkway	Hilliard OH	City of Hilliard 3800 Municipal Way Hilliard, OH 43026	\$10,000,000	2006	Yes
Willow Brook Village Turn Lanes	Delaware, OH	City of Delaware 1 South Sandusky St. Delaware, OH 43015	\$400,000	2006	Yes
East Broad Street & Bannockburn Boulevard Signal	Columbus, OH	City of Columbus 109 N Front St Columbus, OH 43215	\$20,000 (fee)	2006	No
Lancaster Pike Signal Coordination	Circleville, OH	City of Circleville 127 S Court Street Circleville, OH 43113	\$12,000 (fee)	2006	Yes
Refugee Road/Eastland Mall	Columbus, OH	City of Columbus 109 N Front St Columbus, OH 43215	\$250,000 (fee)	2006	No

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

PROJECT NAME & TYPE	LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Village Square Signals	Sunbury, OH	Village of Sunbury PO Box 508 Sunbury, OH 43074	\$215,000	2005	Yes
Hyland-Croy-Brand Road	Dublin, OH	City of Dublin 5800 Shier-Rings Road Dublin, OH 43017	\$27,000	2006	No
Huntington Signal System Study	Huntington, WV	KYOVA Planning Comm. 720 4th Ave Huntington, WV 25701	\$90,000	2006	No
Alkire Road/Harrisburg Pike - Turn Lane	Columbus, OH	Franklin County Engineer 970 Dublin Road Columbus, OH 43215	\$119,000	2006	Yes
US 42 & Slack Road Signal	Delaware, OH	City of Delaware 1 South Sandusky St Delaware, OH 43015	\$140,000	2006	Yes
ATH-144-2.65 Relocation	Athens Co., OH	ODOT District 10 338 Muskingum Drive Marietta, OH 45750	\$8,000,000	2006	Yes
FRA-270-0.60	Franklin Co., OH	ODOT District 6 400 E William Street Delaware, OH 43015	\$3,000,000	2006	No
Knox Street right-of-way acquisition	Westerville, OH	City of Westerville State Street Westerville OH 43081	\$6,500 (fee)	2006	No
Upper Valley Road Right of way acquisition	Clark Co., OH	Clark County Engineer 4075 Laybourne Road Springfield, OH 45505	\$35,000 (fee)	2006	Yes
Norwich Street Right of way acquisition	Hilliard, OH	City of Hilliard 3800 Municipal Way Hilliard, OH 43026	\$14,250 (fee)	2006	No
Mile Branch Bridge Bridge design	McDowell Co., WV	WV DOT Building 5 1900 Kanawha Blvd., East Charleston, WV 25305	\$650,000	2006	Yes
Corridor H Construction Inspection	Hardy Co., WV	WV DOT Building 5 1900 Kanawha Blvd., East Charleston, WV 25305	\$12,500,000	2006	Yes

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

PROJECT NAME & TYPE	LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Colloden RR Bridge Inspection	Cabell Co., WV	WV DOT Building 5 1900 Kanawha Blvd., East Charleston, WV 25305	\$2,700,000	2006	Yes
Davis Creek Bridge Construction Inspection	Kanawha Co., WV	WV DOT Building 5 1900 Kanawha Blvd., East Charleston, WV 25305	\$6,300,000	2006	Yes
Upper Tract Bridge Design - Construction Engineering Review	Pendleton Co., WV	WV DOT Building 5 1900 Kanawha Blvd., East Charleston, WV 25305	\$6,500,000	2006	Yes
Glady Fork Mine Treatment Plant	Upshur Co., WV	WV DEP-Office of Special Reclamation 601 57th St, SE-Box 20 Charleston, WV 25340	\$3,000,000	2006	Yes
Greenland Gap Wind Farm	Grant Co., WV	MA Mortenson Co. 700 Meadow Lane North Minneapolis, MN 55422	\$50,000,000	2006	Yes
Nixon Run	Harrison Co., WV	WV DEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$252,000	2007	Yes
James and Amanda Taylor Waterline Feasibility Study	Preston Co., WV	WV DEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$512,000	2007	Pending
HIG-62-14.69 Corridor/Safety Study	Hillsboro, OH	ODOT District 9 650 Eastern Avenue Chillicothe, OH 45601	\$240,000 (fee)	2007	N/A
Huy Road Resurfacing Lehner Road Resurfacing & Drainage	Clinton Twp, OH	Franklin County Engineer 980 Dublin Road Columbus, OH 43215	\$150,000	2007	Huy Rd - Yes Lehner Rd - No
MEIGS-124-56.02 Preliminary Engineering Study	Meigs Co., OH	ODOT District 10	\$250,000 (fee)	2007	N/A
2007 Street Improvements	Obetz, OH	Village of Obetz	\$210,000	2007	Yes

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

PROJECT NAME & TYPE	LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Alum Creek Drive & Groveport Road Resurfacing/Pavement Rehab.	Obetz, OH	Village of Obetz	\$196,000	2007	Yes
Inka Ravine Resurfacing	Columbus, OH	City of Columbus 910 Dublin Road Columbus, OH 43215	\$1,000,000	2007	No
Sawmill Road & Hard Road Intersection Improvements	Columbus/Dublin, OH	City of Dublin 5800 Shier-Rings Road Dublin, OH 43017	\$1,900,000	2007	No
Tara Hill Post Traffic Calming Study	Dublin, OH	City of Dublin 5800 Shier-Rings Road Dublin, OH 43017	N/A	2007	N/A
Eiterman Road Speed Study	Dublin, OH	City of Dublin 5800 Shier-Rings Road Dublin, OH 43017	N/A	2007	N/A
Stygler Rd. & US 62 Intersection Study	Gahanna, OH	City of Gahanna	N/A	2007	N/A
Stygler Rd. & US 62 Contoller Replacement	Gahanna, OH	City of Gahanna	N/A	2007	N/A
Hard Rd. & Claddaugh Rd. Study	Dublin, OH	City of Dublin 5800 Shier-Rings Road Dublin, OH 43017	N/A	2007	N/A
Perimeter Loop & Holt Road Study	Dublin, OH	City of Dublin 5800 Shier-Rings Road Dublin, OH 43017	N/A	2007	N/A
Hillsdowne Road Study	Westerville, OH	City of Westerville	N/A	2007	N/A
Teays Valley Middle School Traffic Study		Teays Valley Local School District	N/A	2007	N/A
SR 161 & High School Drive Signal Upgrade	Dublin, OH	City of Dublin 5800 Shier-Rings Road Dublin, OH 43017	\$210,000	2007	No
Georgesville Road Turn Lane Improvements	Columbus, OH	City of Columbus 109 N. Front St. Columbus, OH 43215	\$75,000 (fee)	2007	No
Dana Avenue & I-71 Traffic Impact & Interchange Modification Studies	Cincinnati, OH	ODOT District 8 505 South SR 741 Lebanon, OH 45036 (and City of Cincinnati)	\$63,000 (fee)	2007	N/A
Bridge Street & Riverside Drive Intersection Improvement Study	Dublin, OH	City of Dublin 5800 Shier-Rings Road	\$43,000 (fee)	2007	N/A

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

PROJECT NAME & TYPE	LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Avery Muirfield Drive & Tullymore Drive Intersection Improvement Study	Dublin, OH	Dublin, OH 43017 City of Dublin 5800 Shier-Rings Road Dublin, OH 43017	\$64,000 (fee)	2007	N/A
SR 317 Traffic Study Traffic Impact Study	Columbus, OH	ODOT District 6 400 East Williams Street Delaware, OH 43015	\$16,000 (fee)	2007	N/A
Cosgray Road Turn Lane Improvements	Hilliard, OH	Rockford Homes 999 Polaris Parkway Columbus, OH 43240	\$230,000	2007	Yes
Larcomb Road Bridge Replacement	Delaware, OH	Delaware County Engineer 50 Channing Street Delaware, OH 43015	\$535,000	2007	Yes
London Culvert Replacement	London, OH	City of London Safety-Service Director 6 East Second Street London, OH 43140	\$180,000	2007	Yes
DEF/HEN-24-12.03 Two New Bridges	Defiance, OH	ODOT District One 1885 McCullough Street Lima, OH 45801	\$3,124,000	2007	Under Construction
Sugar Creek Access Road Private Road and Bridge	Greene Co., OH	Malcolm Pimie 1900 Polaris Parkway, Suite 2000 Columbus, OH 43240	\$260,000	2007	Under Construction
Clime Road Widening Right of Way Acquisition	Columbus, OH	Franklin County Engineer 910 Dublin Road Columbus, OH 43215	\$72,300 (fee)	2007	N/A
London-Groveport Road Right of Way Acquisition	Grove City, OH	City of Grove City 4035 Broadway Grove City, OH	\$99,350 (fee)	2007	N/A
Weaver Highwall and Mine Drainage, Phase I	Weaver, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$1,200,000	2008	Yes
Weaver Highwall and Mine Drainage, Phase II	Weaver, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$1,300,000	2008	Yes

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

PROJECT NAME & TYPE	LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Laurel Valley (Daniels) Landslide	Lost Creek, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$230,000	2008	Yes
Price Hill Airshaft and Buildings	Price Hill, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$575,000	2009	Yes
Sandy Run Highwall and Portals	Kingwood, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$493,000	2009	Yes
Howesville Sites	Howesville, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$575,000	2009	Yes
Hampton Number Four Maintenance	Clothier, Boone County, WV	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$ 850,000	2010	On-Going
Racine (Bradshaw) Portals	Racine, Boone County, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$ 410,000	2010	On-Going
Church Creek/Manown Highwall	Kingwood, Preston County, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$ 2,500,000	2010	No
WVDEP Mapping Contract –North Region	Northern Coal Producing Counties	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	N/A	2010	N/A
WVDEP Mapping Contract –South Region	Southern Coal Producing Counties	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	N/A	2010	N/A

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

PROJECT NAME & TYPE	LOCATION	NAME & ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Scott Road and Findley Road Waterline Extension Feasibility Study, I.D. No. 356	Norton, Randolph County, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$259,600	2010	No
Lewis County EDA Waterline Extension Feasibility Study, I.D. No. 374	Pricetown, Lewis County, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$2,276,000	2010	No
Bergoo Waterline Extension Feasibility Study, I.D. No. 351	Bergoo, Webster County, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	\$1,788,000	2010	No
Birds Creek Number Four	Kingwood, Preston County, West Virginia	WVDEP, Office of Abandoned Mine Lands 601 57 th St. SE, Box 20 Charleston, WV 25340	N/A	2010	No

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONTRACTOR TO OTHER FIRMS (INDICATE BASE 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	CONTRACTED (YES OR NO)	FIRM ASSOCIATED WITH
Group Nine Intersection Improvements Traffic Design	City of Columbus 109 N. Front Street Columbus, Ohio 43015	\$45	1997	Yes	Dynotec Engineering
Morse Bethel Road Connector Right-of-Way Studies	City of Columbus 109 N. Front Street Columbus, Ohio 43015	N/A	1998	N/A	Burgess & Niple

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.

Stantec can provide one-stop shopping for the West Virginia Abandoned Mine Lands Program. Work, including surveying, development of mapping from field surveys, site design, CADD operations, water testing, hazmat testing, calculations, plans, and specifications associated with this task order contract completed in-house. Stantec carefully selected sub-contractors, successfully used in the past, to perform drilling and chemical testing of soils, rock, and coal that have experience and are extremely familiar with WVAML Projects. Stantec has EOI-specific corporate and employee experience with highwall reclamation engineering, mine seals, drainage control structures and facilities, passive treatment of AMD, debris and waste handling and disposal plan, and revegetation of drastically disturbed areas. Stantec also has EOI-experience in surveying and mapping, subsurface investigations, H & H studies, construction plans and specifications, calculations, conducting associated bid meetings, and necessary reports and invoicing procedures. Stantec has corporate experience on forty (40) WVAML Projects, twelve (12) ODNR AML projects, and employee experience on another fifteen (15) WVAML Projects. In addition, Stantec has completed eight (8) AML Related projects for the West Virginia Conservation Agency. Stantec personnel stay abreast of current developments and technological advances in Abandoned Mine Lands reclamation and acid mine drainage by attending seminars and symposiums on the subjects. In the past, Stantec has attended the WV Surface Mining Task Force Symposium in Morgantown, WV; the National Association of Abandoned Mine Lands Symposium in Athens, OH; West Virginia University Natural Stream Restoration Program in Morgantown, WV; 404/401 Permit Training in Charleston, WV; and State and Local Mitigation Planning in Buckhannon, sponsored by FEMA and WVOES.

20. The foregoing is a statement of facts.

The foregoing is a statement of facts.

Signature:  TITLE: Senior Associate DATE: December 08, 2010

Printed Name: Herbert L. Parsons III, Senior Associate

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 owed 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: Stantec Consulting Services Inc.

Authorized Signature: *Dennis E. Miller* Date: December 08, 2010
Dennis E. Miller

State of West Virginia

County of Upshur, to-wit:

Taken, subscribed, and sworn to before me this 8th day of December, 2010.

My Commission expires April 23, 2014.

AFFIX SEAL HERE

NOTARY PUBLIC *Patrick W. Carpenter*

