



Architecture

Engineering

Construction

October 14, 2008

Chuck Bowman  
Buyer  
West Virginia Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Charleston, WV 25305-0130

**Expression of Interest**  
**Construction Monitoring Services at Mount Storm Mine 25A**  
**Grant County**  
**Req. # DEP14369**

Dear Mr. Bowman:

Enclosed please find one original and one copy of a Confidential Qualification Questionnaire for Qk4. We are requesting consideration for the above-referenced project.

Qk4 has an established record of accomplishments with Municipalities and Public Service Districts in West Virginia for the design and implementation of civil engineering projects. We are currently working on the Glen White Air Shafts Project (ID #14270).

We look forward to the possibility of providing services for the Construction Monitoring Services at Mount Storm Mine 25A. Thank you very much for your consideration.

Sincerely yours,

Steven M. Newton, PE, PS  
Regional Office Manager

SMN\tmb  
File No: U: Office Management\Purchasing Bulletin\DEP14369 Mount Storm  
File ID: 10-20-08 Bowman.doc

802 B Street  
Suite 200  
St. Albans, West Virginia  
25177  
Ph. 304-201-8980  
Fx. 304-201-8983  
www.qk4.com

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PURCHASING DIVISION  
STATE OF WV

**WEST VIRGINIA DEPARTMENT ENVIRONMENTAL PROTECTION  
AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE Attachment "B"**

PROJECT NAME Construction Monitoring Services at the Mount Storm 25A (DEP14369)		DATE (DAY, MONTH, YEAR) 23 <sup>rd</sup> of October, 2008	FEIN 61-0865261
1. FIRM NAME Presnell Associates, Inc. d/b/a Qk4		3. FORMER FIRM NAME Presnell Associates, Inc.	
4. HOME OFFICE TELEPHONE (502) 585-2222		2. HOME OFFICE BUSINESS ADDRESS 815 West Market St., Suite 300 Louisville, KY 40202-2654	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO X
5. ESTABLISHED (YEAR) 1974 - Company 2000 - WV Office		6. TYPE OWNERSHIP Corporation	
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 802 B Street, Suite 200, St. Albans, WV 25177, (304)201-8980, S. Michael Newton, PE, PS, AML Personnel - 3			
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM David E. Smith, PE; President & CEO Glen M. Kelly, PE, PLS; Exec. Vice Pres. Susan M. Newman, Sr VP/ICFO/Sec/Tre. David J. Reed, ASLA; Senior Vice Pres. Matthew R. Houser, ASLA; Senior Vice President Robert E. Gustafson, PE; Senior Vice President Roger J. Wade, PE, PLS; Senior Vice President Albert H. Zimmerman, PE; Vice President Thomas Springer, AICP, CEP; Asst. V. P.		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS S. Michael Newton, PE, PLS; Regional Manager WV, Assistant VP Sherrill Smith, PE, PLS; Vice President James Krauth, PLS; Assistant Vice President David Heyne, AIA; Assistant Vice President	
9. PERSONNEL BY DISCIPLINE			
1 ADMINISTRATIVE	—	ECOLOGISTS	—
— ARCHITECTS	—	ECONOMISTS	—
— BIOLOGIST	—	ELECTRICAL ENGINEERS	—
1 CADD OPERATORS	—	ENVIRONMENTALISTS	—
— CHEMICAL ENGINEERS	—	ESTIMATORS	—
1 CIVIL ENGINEERS	—	<b>GEOLOGISTS</b>	—
— CONSTRUCTION INSPECTORS	—	HISTORIANS	—
— DESIGNERS	—	HYDROLOGISTS	—
— DRAFTSMEN	—	LANDSCAPE ARCHITECTS	—
		MECHANICAL ENGINEERS	—
		<b>MINING ENGINEERS</b>	—
		PHOTOGRAMMETRISTS	—
		PLANNERS: URBAN/REGIONAL	—
		SANITARY ENGINEERS	—
		SOILS ENGINEERS	—
		SPECIFICATION	—
		WRITERS	—
		STRUCTURAL ENGINEERS	—
		<b>SURVEYORS</b>	—
		TRAFFIC ENGINEERS	—
		OTHER	—
		3 TOTAL PERSONNEL	3
		(Corporate = 103)	

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 1  
 \*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.

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

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

<p><b>NAME AND ADDRESS:</b>                  Novel Geo-Environmental, PLLC                  806 B Street                  St. Albans, WV 25177</p>	<p><b>SPECIALTY:</b>                  Soils Analysis /                  Geotechnical Engineering</p>	<p>WORKED WITH BEFORE                  Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p><b>NAME AND ADDRESS:</b>                  Terradon Corporation                  401 Jacobson Drive                  Pocahontas, WV 25159</p>	<p><b>SPECIALTY:</b>                  Surveying</p>	<p>WORKED WITH BEFORE                  Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p><b>NAME AND ADDRESS:</b></p>	<p><b>SPECIALTY:</b></p>	<p>WORKED WITH BEFORE                  Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p><b>NAME AND ADDRESS:</b></p>	<p><b>SPECIALTY:</b></p>	<p>WORKED WITH BEFORE                  Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p><b>NAME AND ADDRESS:</b></p>	<p><b>SPECIALTY:</b></p>	<p>WORKED WITH BEFORE                  Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p><b>NAME AND ADDRESS:</b></p>	<p><b>SPECIALTY:</b></p>	<p>WORKED WITH BEFORE                  Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p><b>NAME AND ADDRESS:</b></p>	<p><b>SPECIALTY:</b></p>	<p>WORKED WITH BEFORE                  Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p><b>NAME AND ADDRESS:</b></p>	<p><b>SPECIALTY:</b></p>	<p>WORKED WITH BEFORE                  Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p><b>NAME AND ADDRESS:</b></p>	<p><b>SPECIALTY:</b></p>	<p>WORKED WITH BEFORE                  Yes <input type="checkbox"/> No <input type="checkbox"/></p>

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

YES Description and Number of Projects: Glen White Air Shafts, DEP14270 -

Design is in progress at this time.

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: The company has practices civil engineering since 1974. Transportation and Site Development are primary areas of practice, all of which involve hydrology and hydraulics. Approximately 150-200 projects.

NO

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

YES Description and Number of Projects: We use outside consultants for aerial photography, however we are able to develop contour mapping from digitized data.

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: Water system engineering is a primary area of practice involving source development, treatment, pumping, distribution and storage. Approximately 100 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.) Newton, Steven M., PE, PS Regional Office Manager - WV Assistant Vice - President	YEARS OF AML DESIGN EXPERIENCE: 1	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 31	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 31
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Brief Explanation of Responsibilities  
Overall project management and design, budget maintenance, QA/AC, and preparation of easement acquisition

Documents.

EDUCATION (Degree, Year, Specialization)  
 Speed Scientific School  
 University of Louisville, 1975-1980  
 Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  
 ASCE, NSPE, WVACE, WVRWA

REGISTRATION (Type, Year, State)  
 PE/1984/KY; PE/1985/IN; PE/1995/NC; PE/1995/PA;  
 PE/2000/WV; PS/1983/KY; PS/1990/TN; PS/1990/IL;  
 PS/2000/WV

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

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

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

Software - AutoCAD Civil 3D - 2006 Equipment - 7 - Dell Desktop PC Computers

(Version 2008 Acquired, HP Designjet 1055 CM Plotter

not currently operational) HP Laserjet 5000N

HP Officejet 7110

Bentley MicroStation 8 Sharp AR-BC260 Digital Imager

Haestad Methods - Flowmaster Wild NA20 Level

MS - Word (2003)

MS - Excel (2003)

Adobe Writer and Reader 7.0

MS - Power Point (2003)

Photoshop

MS - Access (2003)

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Green Valley Extension Wastewater Extension Logan County, WV	Buffalo Creek PSD P.O. Box 209 Amherstdale, WV 25607	Design Bidding Assistance Construction Admin. Construction Inspect. Post Construction	\$1 Million	Preliminary 100% Design 0%
Glen White Air Shafts Abandon Mine Raleigh County, WV	WVDEP Office of Abandoned Mine Lands & Reclamation 116 Industrial Drive Oak Hill, WV 25901	Surveying Conceptual Design Preliminary Design Final Design Construction Inspect.		Conceptual Design 60%
Waverly Wastewater System Upgrade - Environmental Report Wood & Pleasants Counties, WV	Union Williams PSD PO BOX 243 Waverly, WV 26161	Preparation of Environmental Report	\$730,000	90%
Vintroux Sewer Extension to Serve Business Putnam County, WV	Putnam PSD P.O. BOX 860 Scott Depot, WV 25560	Design Bidding Assistance Construction Admin. Construction Inspect. Post Construction		Design 100% Construction 0%
Town of Eleanor Flood Map revisions Putnam County, WV	Town of Eleanor 401 Roosevelt Boulevard Eleanor, WV 25070	Flood Map Revisions	N/A	90%
Cobblestone Subdivision Numerous Site Plans Putnam County, WV	Various Clients	Preparation of Site Plans	\$500,000 +/- (Each)	0-100%
Jim/Bee Ridge Waterline Extension Putnam County, WV	Putnam Co. Commission 3389 Winfield Road Winfield, WV 25213	Design Bidding Assistance Construction Admin. Construction Inspect. Post Construction	\$1,600,000	Design 100% Construction 0%

TOTAL NUMBER OF PROJECTS: 18 TOTAL ESTIMATED CONSTRUCTION COSTS: \$

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
4-H Camp Site Plans Putnam County, WV	Putnam County 4-H Foundation, Rosalee Juba-Plumly, Presidnet P.O. Box 380 Eleanor, WV 25070	Preparation of Site Plan		Design 50%
Eleanor Plaza Sidewalk Sidewalk Extension Putnam County, WV	Town of Eleanor 401 Roosevelt Boulevard Eleanor, WV 25070	Design Bidding Assistance Construction Admin. Construction Inspect. Post Construction	\$38,000	Design 100% Construction 0%
Cobblestone Subdivision Section 3 Putnam County, WV	Cobblestone, LLC 500 Corporate Centre Drive, Suite 550 Scott Depot, WV 25560	Surveying Design	\$900,000	Design 90%
Paden City Wastewater Collection System Rehabilitation Project Tyler and Wetzel Counties	City of Paden City P.O. Box 211 Paden City, WV 26159	Design Bidding Assistance Construction Admin. Construction Inspect. Post Construction	\$1,800,000	Design 100% Construction 0%
Waverly Wastewater Upgrade Wood & Pleasants Counties, WV	Union Williams PSD PO BOX 243 Waverly, WV 26161	Design Bidding Assistance Construction Admin. Construction Inspect. Post Construction	\$730,000	Design 100% Construction 0%
Pleasants County Waterline Extension Pleasants County, WV	Union Williams PSD P.O. Box 243 Waverly, WV 26161	Design Bidding Assistance Construction Admin. Construction Inspect. Post Construction	\$943,000	Design 100% Construction 0%
US Route 35 Relocate / Upgrade Mason County, WV	WVDOT 1900 Kanawha Blvd., E Charleston, WV 25305	Preliminary Report Preliminary Design Final Design Construction Admin.	\$28,900,000	36%

TOTAL NUMBER OF PROJECTS: 18 TOTAL ESTIMATED CONSTRUCTION COSTS: \$



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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Vintrox Sewer Extension Putnam County, WV	Putnam PSD P.O. BOX 860 Scott Depot, WV 25560	Design Bidding Assistance Construction Admin. Construction Inspect. Post Construction	\$1.8 Million	Design 100% Construction 50%
Alum Creek Facilities Planning Report Lincoln County, WV	Lincoln PSD P.O. Box 38 Alum Creek, WV 25003	Preparation of Facilities Plan with Assistance with funding	\$27.6 Million	Facilities Plan 99%
Fisher's Ford Bridge Renovation Morgan County, WV	WVDOT 1900 Kanawha Blvd., E Charleston, WV 25305	Preliminary Report Preliminary Design Final Design Construction Admin.	\$1.7 Million	Preliminary 100% Design 0%
WV Route 9 Relocate / Upgrade Jefferson / Berkeley Counties, WV	WVDOT 1900 Kanawha Blvd., E Charleston, WV 25305	Preliminary Report Preliminary Design Final Design Construction Admin.	\$60,819,000	Design 100% Construction 0%

TOTAL NUMBER OF PROJECTS: 18

TOTAL ESTIMATED CONSTRUCTION COSTS: \$



17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	WV OFFICE, ALY CONSTRUCTED (YES OR NO)
Vintrox Waterline Replacement Putnam County, WV	Putnam PSD P.O. Box 860 Scott Depot, WV 25560	\$420,000	2007	YES
Northfork Waterline AML Study ID#308 McDowell County, WV	WVDEP - AML 601 57 <sup>th</sup> Street, SE Charleston, WV 25304	N/A Study	2007	NO
Ivywood Street Drainage Plans Putnam County, WV	Town of Eleanor 401 Roosevelt Boulevard Eleanor, WV 25070			NO
Dr. Herman Site Plan Putnam County, WV	Dr. Herman Eye Center 3709 Teays Valley Road Hurricane, WV 25526	\$630,000	2007	YES
Cobblestone Subdivision Phases 1 and 2 Putnam County, WV	Cobblestone Subdivision, LLC 500 Corporate Centre Drive Suite 550 Scott Depot, WV 25560	\$1,200,000	2005- 2006	YES
ICG Site Plan Putnam County, WV	G&G Builders 500 Corporate Centre Drive Suite 550 Scott Depot, WV 25560	\$7,100,000	2006	Yes
Fruth Pharmacy Site Plan Kanawha County, WV	G&G Builders 500 Corporate Centre Drive Suite 550 Scott Depot, WV 25560	\$900,000	2005	YES
Teays Valley Road (WV 33) Road Widening Putnam County, WV	Putnam County Development Authority PO BOX 167 SCOTT DEPOT, WV 25560	\$150,000	2005	YES
Paden City SSES Study Tyler and Wetzel Counties	City of Paden City P.O. Box 211 Paden City, WV 26159	\$2,000,000		

Teays Valley Cinemas Site 1 Putnam County, WV	G&G Builders 500 Corporate Centre Drive Suite 550 Scott Depot, WV 25560	\$3,500,000	2005	YES
North Hills Subdivision Drainage Plan Kanawha County, WV	Habitat for Humanity P.O. Box 70160 Charleston, WV 25301			
Eleanor Sidewalk Plans Putnam County, WV	Town of Eleanor 401 Roosevelt Boulevard Eleanor, WV 25070	\$158,000	2006	YES
Kapok Street Sanitary Reconstruction Putnam County, WV	Town of Eleanor 401 Roosevelt Boulevard Eleanor, WV 25070	\$120,000		NO
I-68 Underpass Closure Bridge Design Preston County, WV	WV DOT 1900 Kanawha Boulevard, E Charleston, WV 25305	\$1,200,000	2005	YES
Midway Sewer System Phases 1 and 2 Putnam County, WV	Putnam PSD P.O. Box 860 Scott Depot, WV 25560	\$650,000	2005	YES
Simex Pump Station / Waverly Sewer System Wood County, WV	Union Williams PSD P.O. Box 243 Waverly, WV 26161	\$654,000	2004	NO
Fir Street Sewer Line Reconstruction Putnam County, WV	Town of Eleanor 401 Roosevelt Boulevard Eleanor, WV 25070	\$70,500	2003	YES
WV Route 34 Putnam County, WV	WV DOT 1900 Kanawha Blvd., East Charleston, WV 25305	\$11.9 Million	2004	YES

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)	PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH

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: Stevenson M. Newton Title: OFFICE MGR. Date: 10-20-08

Printed Name: STEVEN M. NEWTON

**WEST VIRGINIA DEPARTMENT ( ENVIRONMENTAL PROTECTION  
 AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE Attachment "B"**

PROJECT NAME: Various WVDEP AML Design Projects  
 DATE: February 25, 2008  
 FEIN: 52-2365940

1. FIRM NAME:  
 Novel Geo-Environmental, LLC  
 2. HOME OFFICE BUSINESS ADDRESS:  
 171 Montour Road  
 Moon Township, PA 15108  
 3. FORMER FIRM NAME:  
 NA

4. HOME OFFICE TELEPHONE:  
 (412) 722-1970  
 5. ESTABLISHED:  
 2002  
 6. TYPE OWNERSHIP:  
 Limited Liability Corporation  
 6a. WV REGISTERED DBE:  
 YES

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE:  
 806 B Street  
 St. Albans, WV 25177  
 304-201-5180  
 Office Manager: John E. Nottingham, P.E.  
 No. AML Design Personnel in St. Albans, WV: 5  
 No. AML Design Personnel in Moon Township, PA : 5

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM:  
 Amy L. Veltri - President  
 John E. Nottingham - Vice President  
 8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS

9. PERSONNEL BY DISCIPLINE (Bold Lettering Indicates Minimum Design Team Members)
- |                           |                        |                            |                        |
|---------------------------|------------------------|----------------------------|------------------------|
| — ADMINISTRATIVE          | — ECOLOGISTS           | — LANDSCAPE ARCHITECTS     | — STRUCTURAL ENGINEERS |
| — ARCHITECTS              | — ECONOMISTS           | — MECHANICAL ENGINEERS     | — SURVEYORS            |
| — BIOLOGIST               | — ELECTRICAL ENGINEERS | — MINING ENGINEERS         | — TRAFFIC ENGINEERS    |
| 1 CADD OPERATORS          | 4 ENVIRONMENTALISTS    | — PHOTOGRAMMETRISTS        | 4 DRILLERS & HELPERS   |
| — CHEMICAL ENGINEERS      | — ESTIMATORS           | — PLANNERS: URBAN/REGIONAL | 5 OTHER PERSONNEL      |
| 2 CIVIL ENGINEERS         | 2 GEOLOGISTS           | — SANITARY ENGINEERS       |                        |
| 4 CONSTRUCTION INSPECTORS | — HISTORIANS           | — 2 SOILS ENGINEERS        |                        |
| — DESIGNERS               | — HYDROLOGISTS         | — SPECIFICATION WRITERS    | 20 TOTAL PERSONNEL     |
| — DRAFTSMEN               |                        |                            |                        |

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 2  
 \*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES

11. OUTS: KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Quali ation

Questionnaire" for each if copy is not on file with AML.

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 experienced in Abandoned Mine Land Remediation/Mine Reclamation Engineering?

NO: Note that Novel Geo-Environmental (NGE) has not performed any AML design work to date, but our WV Office Manager (John E. Nottingham) and project geologist (Chuck Montgomery) have extensive AML experience with their former firm. Additionally, NGE currently holds a contract with WVDEP-AML for geotechnical drilling for the northern district of WV and has completed several drilling projects under this contract.

B. Is your firm experienced in Soil Analysis?

YES: NGE specializes in Geotechnical Engineering including foundation investigations, subsurface investigations, cut slope design, fill embankment analysis and design, slope stability analysis, landslide analysis and corrective design, mine subsidence investigations, geologic studies, groundwater seepage analysis, foundation design, retaining wall design, pavement design, subsurface drilling and monitoring well installation. NGE has performed a total of several hundred geotechnical engineering related projects since the company was formed in 2002.

C. Is your firm experienced in hydrology and hydraulics?

NO: While our firm has not performed any hydrology/hydraulics projects to date, our personnel have experience with former employers.

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

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.)

NO



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

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:
Nottingham, John, E.	12	4	0

Brief Explanation of Responsibilities

Mr. Nottingham was responsible for supervising field and design work for numerous AML related landslide abatement projects for the WVDEP while under the employment of Triad Engineering, Inc. In addition to landslide abatement projects, Mr. Nottingham was involved in subsidence determination investigations and subsidence abatement projects. Mr. Nottingham worked extensively on "emergency" projects which required quick field investigations and corrective designs.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science in Civil Engineering, 1987, WVU, Specialization - Civil and Geotechnical Engineering  
 Masters of Science in Civil Engineering, 1995, WVU, Specialization - Geotechnical Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineering (ASCE)  
 West Virginia Chapter of AIA

REGISTRATION (Type, Year, State)

Professional Engineering, 1994, WV  
 Professional Engineering, 2007, VA  
 Professional Surveyor, 1996, WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Montgomery, Charles, E.	10	4	0

Brief Explanation of Responsibilities

Mr. Montgomery was responsible for coordinating field activities for AML landslide abatement projects for the WVDEP while employed with Triad Engineering, Inc. Mr. Montgomery has also participated in all project phases for other AML work involving subsidence determinations/abatement and impounded mine pools.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, Geology, 1991, Marshall University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Association of Engineering Geologists  
 Geological Society of America

REGISTRATION (Type, Year, State)

Professional Geologist, 1999, Kentucky

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.) Nottingham, Larry C.	YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 5	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
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Brief Explanation of Responsibilities

Dr. Nottingham planned and supervised several AML investigation and reclamation projects for WVDEP while employed by Triad Engineering. Projects included burning refuse pile investigations, unstable refuse pile investigations and remedial designs, landslide investigations and remedial designs, subsidence investigations, and underground mine fire investigations.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science in Civil Engineering, 1965, Civil Engineering, West Virginia Institute of Technology  
 Master of Science in Civil Engineering, 1966, Geotechnical Engineering, University of Pittsburgh  
 Doctor of Philosophy, 1975, Geotechnical Engineering, University of Florida

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Member, American Society of Civil Engineers  
 Member, National Society of Professional Engineers

REGISTRATION (Type, Year, State)

Professional Engineer, 1969, WV  
 Professional Engineer, 1985, KY  
 Professional Engineer, 1985, OH  
 Professional Engineer, 2006, PA

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)

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

Three rotary drill rigs, one mounted on a four wheel drive one-ton truck, and two track-mounted rigs. Drills are equipped with hollow stem augers, split-spoon soil sampling equipment, and rock coring tools.

Portable dynamic cone penetrometer.

Electric concrete coring drill.

Two equipment hauling trailers.

Software includes: Word processing, PCSTABL - Slope Stability Analysis, LPILE Plus 4.0 - Pile Foundation Analysis, PYWALL 2.0 - Retaining Wall Analysis, RESSA 2.0 - Reinforced Soil Slope Analysis, ResSlope 3.0 - Reinforced Soil Slope Design

Soil Laboratory Equipment: Soil Oven, Scales, Sieves, Liquid and Plastic Limits Machine

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
Chesapeake Energy Office & Shop Complex, Geotechnical Investigation, Inez, KY	Chesapeake Energy Corporation, 6100 N. Western Avenue, Oklahoma City, OK 73154	Perform subsurface investigation, develop and provide recommendations for building foundation design	Unknown, Fee = \$6600.00	5
Annual Geotechnical Drilling Contract, Northern West Virginia	West Virginia Department of Environmental Protection	Perform geotechnical (drilling) investigations of abandoned mine land sites as directed by WVDEP/AML personnel.	Unknown	30
TOTAL NUMBER OF PROJECTS: 2			TOTAL ESTIMATED CONSTRUCTION COSTS: \$ Unknown	

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

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Ten Cell Tower Sites, Geotechnical Investigations, Various Locations Throughout WV	Determine Site Subsurface Conditions, Provide Foundation Design Recommendations.	Terradon Corp. Nitro, WV	March, 2008	Unknown	Fee \$33,000
Six Cell Tower Sites, Geotechnical Investigations, Various Locations Throughout WV	Determine Site Subsurface Conditions	PSI, Inc. 153 Williams Hwy Parkersburg, WV	March, 2008	Unknown	Fee ≈ \$12,000
Toyota Meeting Room, Geotechnical Investigation, Buffalo, WV	Geotechnical Investigation for New Building Structure	Toyota Corp. Buffalo, WV	March, 2008	Unknown	Fee \$4000
I-64 Over Hal Greer Blvd. Bridge, CSL Testing, Huntington, WV	Perform Cross-Hole Sonic Logging of New Foundation Drilled Piers	West Virginia Dept. of Highways, Charleston, WV	August, 2008	Unknown	Fee ≈ \$17,000
Harrison Co. EMS Station, Geotechnical Investigation, Clarksburg, WV	Determine Site Subsurface Conditions, Provide Foundation Design Recommendations	Harrison Co. EMS Clarksburg, WV	February, 2008	Unknown	Fee \$4000
Corridor H Highway Construction, Quality Control Testing, Grant Co., WV	Perform soil compaction and concrete quality control tests.	West Virginia Dept. of Highways, Charleston, WV	November, 2008	Unknown	Fee ≈ \$75,000
Water Storage Tank, Subsurface Investigation, Gilbert, WV	Determine Site Subsurface Conditions	Gilbert PSD Gilbert, WV	March, 2008	Unknown	Fee \$3000



18. CO... LETTED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM... HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE... -HASE 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
S. Mineral Wells Interchange, Geotechnical Study, Mineral Wells, WV	WV Department of Highways Charleston, WV	\$5,000,000	2007	In Process	L. A. Gates Co.
Winfrede RR Overpass Bridge, Geotechnical Investigation, Winfrede, WV	WV Department of Highways Charleston, WV	\$1,500,000	2005	Yes	HNTB Corporation
Performing Arts Center. Geotechnical Investigation, Buckhannon, WV	West Virginia Wesleyan College, Buckhannon, WV	\$500,000	2007	Yes	R. D. Zande & Associates, Inc.
Mt. Gay Overpass Bridge, Geotechnical Investigation, Logan, WV	WV Department of Highways Charleston, WV	\$1,000,000	2004	Yes	HMB Professional Engineers, Inc.
Water Tanks, Geotechnical Investigation, Iager, WV	Iager PSD Iager, WV	\$100,000	2006	Yes	Stafford Consultants
5th Avenue Bridge, Geotechnical Investigation, Huntington, WV	WV Department of Highways Charleston, WV	\$2,500,000	2003	Yes	Modjeski & Masters, Charleston, WV

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: John E. Nottingham Title: Vice President Date: 2/25/08  
 Printed Name: JOHN E. NOTTINGHAM



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE

EXPERIENCE DATA Various WVDEP AML Design Projects		DATE (DAY, MONTH, YEAR) <b>January 1, 2008</b>	FEIN <b>55-0687626</b>
1. FIRM NAME <b>TERRADON Corporation</b>		3. FORMER FIRM NAME	
4. HOME OFFICE TELEPHONE <b>(304)-755-8291</b>	5. ESTABLISHED (YEAR) <b>1989</b>	6. TYPE OWNERSHIP Individual <input checked="" type="checkbox"/> Corporation Partnership <input type="checkbox"/> Joint-Venture <input type="checkbox"/>	6a. WV REGISTERED DBE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
7. PRESENT OFFICES: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. PERSONNEL EACH OFFICE <b>401 Jacobson Drive, Poca, WV 25159 / (304)-755-8291 / Thomas Y. Kittredge, President / 42 persons</b> <b>425 North Jefferson Street, Lewisburg, WV 24901/ (304) 645-4636 / Robert Ridgeway, Branch Manager / 10 persons</b>			
8. NAMES OF PRINCIPAL OFFICIALS OR MEMBERS OF FIRM <b>Thomas Y Kittredge, President</b> <b>Virginia L. King, CFO</b>		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS <b>Timothy T White, P.E. , Principal Engineer</b>	
9. PERSONNEL BY DISCIPLINE			
5 ADMINISTRATIVE	— ECOLOGISTS	5 LANDSCAPE ARCHITECTS	1 STRUCTURAL ENGINEERS
— ARCHITECTS	— ECONOMISTS	— MECHANICAL ENGINEERS	10 SURVEYORS
9 CADD OPERATORS	— ELECTRICAL ENGINEERS	— MINING ENGINEERS	— TRAFFIC ENGINEERS
— CHEMICAL ENGINEERS	2 ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	1 TRANSPORTATION ENGINEERS
5 CIVIL ENGINEERS	— ESTIMATORS	— PLANNERS: URBAN/REGIONAL	3 OTHER
8 CONSTRUCTION INSPECTORS	— GEOLOGISTS	1 SANITARY ENGINEERS	
1 DESIGNERS, HIGHWAY	— HISTORIANS	1 SOILS ENGINEERS	
— DRAFTSMEN	— HYDROLOGISTS	— SPECIFICATION WRITERS	
			52 TOTAL PERSONNEL

10. TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: **6**

\*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise this type of work.

11. **CROSS-SIDE KEY CONSULTANTS/ASSOCIATES ANTICIPATED TO BE USED.** Attach "Consultant Confidential Qualification Questionnaire" for each. ... copy is not on file with AML.

NAME AND ADDRESS	SPECIALITY	WORKED WITH BEFORE
<b>Triad Engineering</b> 4980 Teays Valley Road Scott Depot WV 25560	<b>Drilling, Soils Lab</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<b>Bio-Chem Testing, Inc.</b> PO Box 634 Teays WV 25569	<b>Water Lab</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<b>Photo Science</b> 2670 Wilhite Drive Lexington, KY 40503	<b>Aerial Photogrammetric Mapping</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

YES Description and Number of Projects: **35 projects for WVDEP/AML&R**

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: **24 WVDEP/AML&R projects included some soil analysis, and nearly all projects for the last 5 years have included soils analysis for various purposes.**

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: **24 WVDEP/AML&R projects included hydrology and hydraulics and nearly all projects for the last 5 years have included hydrology and hydraulics.**

NO

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

YES Description and Number of Projects:

NO **We routinely provide photo control surveys and field edit the mapping provided.**

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: **9 WVDEP/AML&R projects included the evaluation of aquifer degradation as a result of mining. Four of those projects have been designed and constructed. TERRADON has also designed hundreds of miles of waterline in the last 5 years.**

NO

F. Is your firm experienced in Acid Mine Drainage?

YES Description and Number of Projects: **5 WVDEP/AML&R projects included acid mine drainage evaluation and abatement. In addition, TERRADON was 1 of only 2 firms evaluating and designing AMD abatement of special reclamation projects in 1992, 1993 and 1994.**

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 Initial) <b>James, John W., P.E. Project Manager</b>	YEARS OF AML DESIGN EXPERIENCE: <b>7</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>27</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>7</b>
	Brief Explanation of Responsibilities <b>Geotechnical Project Manager for TERRADON Corporation. Responsible for contract administration and project management; peer review of design, construction drawings and specifications; constructability review and construction cost estimate. Responsible for resource management to assure project schedule and cost.</b>		
EDUCATION (Degree, Year, Specialization) <b>B.S., 1968, Civil Engineering</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>American Society of Civil Engineers (Past President, WV Section)</b>			
NAME (Last, First, Middle Initial) <b>White, William, P.E. Senior Structural Engineer</b>	YEARS OF AML DESIGN EXPERIENCE: <b>2</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>18</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>0</b>
	Brief Explanation of Responsibilities <b>Senior engineer responsible for structural analysis, design engineering, field investigation, specification writing, engineer's cost estimate, prebid and preconstruction meetings. Experienced in retaining wall design.</b>		
EDUCATION (Degree, Year, Specialization) <b>B.S., 1987, Civil Engineering</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>American Society of Civil Engineers</b>			
REGISTRATION (Type, Year, State) <b>P.E., 1973, WV</b>			
REGISTRATION (Type, Year, State) <b>P.E., 1997, WV; P.E., 1996, OH; P.E., 1999, VA; P.E., 2000, FL; P.E., 2000, NC; P.E., 2000, AR; P.E., 2001, KY</b>			

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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials.)			
NAME (Last, First, Middle Initial)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE	
		YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE
<b>White, Timothy T., P.E. Civil Engineer, Project Manager</b>	<b>2</b>	<b>15</b>	<b>0</b>
Brief Explanation of Responsibilities <b>Project Engineer responsible for grading, hydraulic design, erosion and sediment control, natural stream channel assessment and design.</b>			
EDUCATION (Degree, Year, Specialization) <b>B.S., 1992, Civil Engineering</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>American Society of Civil Engineers</b>			
REGISTRATION (Type, Year, State) <b>P.E. 1999, OH; P.E. 1999, WV; P.E. 2001, AR; P.E. 2002, KY; P.E. 2003, TX; P.E. 12006, VA; P.E. 2007, PA</b>			
NAME (Last, First, Middle Initial)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE	
		YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE
<b>Miller, Jennifer J., P.E. Civil Engineer, Project Engineer</b>	<b>2</b>	<b>0</b>	<b>7</b>
Brief Explanation of Responsibilities <b>Project Engineer responsible for hydrologic studies, hydraulic design, erosion and sediment control, water distribution modeling and water treatment.</b>			
EDUCATION (Degree, Year, Specialization) <b>B.S., 1985, Civil Engineering</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>P.E., 1990, MO; P.E., 1992, WV; P.E., 2007, VA</b>			

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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials.)			
NAME (Last, First, Middle Initial) <b>Nagey, James A., P.E. Civil Engineer</b>	YEARS OF AML DESIGN EXPERIENCE: <b>2</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>0</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE <b>23</b>
	Brief Explanation of Responsibilities <b>He specializes in the design of water treatment and distribution systems.</b>		
EDUCATION (Degree, Year, Specialization) <b>B.S., 1974, Civil Engineering Technology</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>REGISTRATION (Type, Year, State) P.E., 1982, WV</b>			
NAME (Last, First, Middle Initial) <b>McCallister, Harvey 'Bud', P.E. Civil Engineer</b>	YEARS OF AML DESIGN EXPERIENCE: <b>0</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>0</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE <b>30</b>
	Brief Explanation of Responsibilities <b>More than 30 years of experience in planning, design, funding, permitting, and construction management of water and wastewater projects throughout West Virginia</b>		
EDUCATION (Degree, Year, Specialization) <b>B.S., 1969, Civil Engineering M.S., 1972, Sanitary Engineering</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>REGISTRATION (Type, Year, State) P.E., 1976, WV; P.E., 2006, OH</b>			

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

NAME (Last, First, Middle Initial)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE
<b>Thaw, Robert F., P.S.</b>	<b>13</b>	<b>13</b>	<b>22</b>
<b>Principal Surveyor</b>  Brief Explanation of Responsibilities <b>Responsible for all aspects of surveying including photogrammetry control, if required, field editing of mapping, topographic mapping, establishment of survey control monuments and establishing base lines for construction layout and quantity measurement. Also, tax map overlays and detailed property clarifications.</b>			
EDUCATION (Degree, Year, Specialization) <b>B.A., 1981, Surveying Technology</b> <b>B.S., 1985, Surveying</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
West Virginia Association of Land Surveyors		P.S. 1993, WV	
NAME (Last, First, Middle Initial)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE
<b>Brown, David A., P.S.</b>	<b>5</b>		
<b>Professional Surveyor</b>  Brief Explanation of Responsibilities <b>Responsible for all aspects of surveying including photogrammetry control, if required, field editing of mapping, topographic mapping, establishment of survey control monuments and establishing base lines for construction layout and quantity measurement. Also, tax map overlays and detailed property clarifications.</b>			
EDUCATION (Degree, Year, Specialization) <b>B.S., 1996, Engineering Technology</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
West Virginia Association of Land Surveyors		P.S. 2003, WV	

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

NAME (Last, First, Middle Initial)	YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE
<b>Bakanas, Brian</b> Professional Surveyor	7	
Brief Explanation of Responsibilities <b>Field survey and office computations for field editing of mapping, topographic surveys, and establishing base lines for construction layout and quantity measurement. Tax map overlay and boundary surveys.</b>		
EDUCATION (Degree, Year, Specialization) <b>A.S., 1985, Surveying</b>		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS REGISTRATION (Type, Year, State) <b>P.S. 1996, WV</b>		
NAME (Last, First, Middle Initial)	YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE
<b>Fox, Gregory D., ASLA</b> Land Development Manager	2	0
Brief Explanation of Responsibilities <b>Responsible for grading and drainage plans.</b>		
EDUCATION (Degree, Year, Specialization) <b>B.S., 1988, Landscape Architecture</b> <b>B.A., 1994, Geography (Planning)</b>		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>American Society of Landscape Architects</b> <b>WV Chapter ASLA</b> <b>Associate Member AIA West Virginia</b>		
REGISTRATION (Type, Year, State) <b>Landscape Architect: 1991-OH, 1992-WV, 1993-KY, 1997-SC, 1997-NC, 2002-VA</b>		

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

NAME (Last, First, Middle Initial) <b>Gerencir, William</b> <b>Designer, CADD Technician</b>		YEARS OF AML DESIGN EXPERIENCE: <b>14</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>14</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>14</b>
Brief Explanation of Responsibilities <b>Design tasks include: drainage calculations consisting of hydrology and hydraulic calculations. Earthworks including (conceptual) site design, site grading and site balance, project coordination, coordination of all design drawing, Quality Control, and calculation brief, writing of specifications. Site work including surveying and site reconnaissance. Erosion and sediment control design. Environmental permits.</b>				
EDUCATION (Degree, Year, Specialization) <b>A.S., 1991, Civil Surveying Engineering Technology</b>				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>REGISTRATION (Type, Year, State)</b>				
NAME (Last, First, Middle Initial) <b>Garnes, Kevin, D.</b> <b>Senior Designer/CADD Technician</b>		YEARS OF AML DESIGN EXPERIENCE: <b>14</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>25</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>25</b>
Brief Explanation of Responsibilities <b>CADD Support: Site design, site grading and site balance. Design drawings and Quality Control. Field reconnaissance and layout of waterline feasibility studies and final design.</b>				
EDUCATION (Degree, Year, Specialization)				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>REGISTRATION (Type, Year, State)</b>				
NAME (Last, First, Middle Initial) <b>Ratcliffe, William M.</b> <b>Environmental Scientist</b>		YEARS OF AML DESIGN EXPERIENCE: <b>0</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>3</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>0</b>
Brief Explanation of Responsibilities <b>Wetland delineations, design, permits, 401/404 certifications. Natural stream design, NPDES permits, NEPA permits and reports.</b>				
EDUCATION (Degree, Year, Specialization B.A., 2003, Environmental Geo-Science)				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>REGISTRATION (Type, Year, State)</b>				

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

Software

Autodesk 2007 Land Development Desktop with Civil and Survey Design Modules

SedCad 4 - Erosion Control and Hydrology Software

Haested Method Flowmaster Software for Channel Design

Haested Methods - Water CADD (Pipe Network Analysis)

Slope Stability -

PC Stable

REAME

SBSLOPE

WinStable and WinStable 2003

Piling Walls, Anchors and Reinforced Earth Walls -

Lpile

HeliCAP

Anchor 400

KeyWall 2004

TR 55, TR 20, TR 66 (Sites) - Hydrology

Hec-1, Hec HMS 2.22, Hec R As 3.1.2 - Hydrology

LC 58 + RP 61 - Structural (wall)

Microstation V8

Surveying Equipment

Trimble 4700 modular, RTK Global Positioning Total Station

Trimble Geomatics Office Software

Topcon Total Stations (3)

SMI Data Collectors (3)

Printing/Plotting/Reproduction

HP DesignJet 1050C Plotter

HP DesignJet 759C Plotter

HP LaserJet 8000 Printer (2)

HP Color LaserJet 3700

Sharp AR-550 Copier/Printer (2)

Sharp AR-C150 Full Color Copier/Printer

Océ 7056 Engineering Size Copier

15. PRESENT ACTIVITIES ON WHICH YOU ARE THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Sawmill Village Development Site/civil Design, Snowshoe, West Virginia	Summit III, LLC 295 Seven Farms Drive Charleston, WV 29492	\$100,000,000	50%
WV Route 2 Water Line Extensions Huntington, West Virginia	West Virginia American Water PO Box 1906 Charleston WV 25327	\$450,000	0%
New Hope 1 MG Water Storage Tank New Hope, West Virginia	West Virginia American Water PO Box 1906 Charleston WV 25327	\$600,000	99%
Salt Rock PSD Water Main Extensions Salt Rock, West Virginia	Salt Rock PSD & Cabell County Commission Huntington, West Virginia	\$2,000,000	50%
Derrick Creek Water Line Extensions Sissonville, West Virginia	West Virginia American Water PO Box 1906 Charleston WV 25327	\$1,500,000	0%
Charleston Replacement Housing Site/Civil for CRH 1-5 Charleston, West Virginia	Alan Ives Construction 10 South La Salle Street, Suite 3440 Chicago, Illinois 60603	\$20,000,000	50%
Putnam County 2006 Water Main Extensions, Putnam County, West Virginia	Putnam County Commission 3389 Winfield Road Winfield, WV 25213	\$3,300,000	98%

Continued on next page

15. PRESENT ACTIVITIES ON WHICH YOU ARE THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Fort Lee Hydraulic Study, Water Line Extensions, and New Fuel Tanks Hope Well, Virginia	Virginia American Water Company 900 Industrial Street Hopewell, VA 23860	\$450,000	99%
Fairmont Water Park Fairmont, West Virginia	City Fairmont 200 Jackson Street Fairmont, West Virginia 26554	\$3,000,000	90%
Yeager Airport Parking Deck Charleston, West Virginia	BBL Carlton PO Box 1153 Charleston, WV 25324	\$3,000,000	15%
Relocate CR 18, Eccles, Raleigh County, West Virginia	WVDOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	\$2,000,000	80%
Sleeths Run Bridge CR119/1 Lewis County West, Virginia	WVDOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	\$2,000,000	20%
44 Various Cell Tower Sites Throughout West Virginia	NTelos 1150 Shenandoah Village Drive Waynesboro, VA 22980	\$3,000,000	25%
TOTAL NUMBER OF PROJECTS: 13		TOTAL ESTIMATED CONSTRUCTION COSTS: \$141,300,000	

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

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Mingo Central High Sch Mingo County, West Virginia	Civil, Site Design, Surveying	Mingo County BOE Sycamore Street Williamson, WV 25661	2008	\$20,000,000	15%
Marshall Community & Technical College Huntington, West Virginia	Civil, Site Design, Surveying	Marshall University Facilities Planning & Management, Huntington, WV	2009	\$20,000,000	15%
New Teays Elementary Scott Depot, West Virginia	Civil, Site Design, Surveying	Putnam County BOE Winfield, WV 25213	2008	\$12,000,000	15%
Moorefield Intermediate School Moorefield, West Virginia	Civil, Site Design, Surveying	Hardy County BOE 510 Ashby Street Moorefield, WV 26836	2009	\$12,000,000	15%
Marshall University, Health & Wellness Center, Dormitories Huntington, WV	Civil, Site Design, Hardscape	Marshall University Facilities Planning & Management, Huntington, WV	2008	\$27,000,000	10%
Twin Falls State Park Lodge Expansion McDowell County, WV	Civil, Site Design	WV Division of Natural Resources, Capitol Building 3, R663 Charleston, WV 25305	2008	\$5,500,000	15%
University High School Monongalia County, WV	Civil, Site Design	Monongalia County Schools, 668 River Rd Morgantown, WV 26507	2008	\$12,000,000.00	20%

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
US 35 Value Engineering, Ramp 1, WV 34 Interchange Putnam County, West Virginia	WVDOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	Saving \$3,000,000	2007	Yes
Gypsy Bridge S317-19-23.25 00 Erection Plans Harrison County, West Virginia	Bilco Construction Company, Inc. 805 Wisteria Drive South Charleston, WV 25309	\$ 20,000 fee	2008	Under Construction
South Branch Potomac River Bridge, X316-H-100.40 04 Erection Plans Hardy County, West Virginia	Vecellio & Grogan, Inc. P.O. Box 2438 Beckley, WV 25902	\$31,000,000	2008	Under Construction
WV 73 Turning Lanes Fountain Place Development Logan County, West Virginia	WVDOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	\$ 600,000	2005	Yes
Sedalia Arch Bridge, Bridge Replacement Sedalia, West Virginia	WVDOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	\$890,000	2006	Yes
Fairmont Coke Works Redevelopment Traffic Study, Fairmont, West Virginia	City Fairmont 200 Jackson Street Fairmont, West Virginia 26554	\$20,000 fee	2006	No
St. Mary's (WV 16) Bypass Route Study Pleasants County, WV	WVDOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	\$120,000 fee	2004	Study
Hinton Landslide, Landslide Reclamation Hinton, West Virginia	WVDOT, Division of Highways Building 5, Room A-110 1900 Kanawha Boulevard East Charleston, WV 25305	\$1,000,000	2006	Yes

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17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD		ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER			
Corridor L Widening Design US Route 19 Summersville, West Virginia	WVDOT, Division of Highways Building 5, Room A-110 1900 Kanawha Boulevard East Charleston, WV 25305	\$12,100,000	2005	No
Upper Fishers Branch/Guthrie Water Main Extension Kanawha County, West Virginia	West Virginia American Water PO Box 1906 Charleston WV 25327	\$2,800,000	2008	Under Const.
Upper Frame Phase 2 Water Main Extension Kanawha County, West Virginia	Kanawha County RDA & West Virginia American Water PO Box 1906 Charleston WV 25327	\$2,100,000	2008	Under Const.
Tucker County Landfill Expansion Design of Cell 6 Thomas, West Virginia	Tucker County Solid Waste Authority PO Box 58 Thomas WV 26292	\$2,500,000	2007	Yes
Montgomery Wastewater Treatment Plant Upgrade, Design Montgomery, West Virginia	City of Montgomery 706 3 <sup>rd</sup> Avenue Montgomery WV 25136	\$2,800,000	2009	Under Const.
Back Fork Water Main Extension Webster County, West Virginia	West Virginia American Water PO Box 1906 Charleston WV 25327	\$800,000	2008	Under Const.
Rabel Mountain Water Main Extensions Kanawha County, West Virginia	WV American Water PO Box 1906 Charleston WV 25327	\$600,000	2007	Yes
Fort Lee Water Distribution System Upgrade Fort Lee, Virginia	WV American Water PO Box 1906 Charleston WV 25327	\$1,000,000	2006	Yes

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Prince Williams 1 Million Gallon Elevated Water Storage Tank Prince Williams County, Virginia	WV American Water PO Box 1906 Charleston WV 25327	\$1,500,000	2006	Yes
Hickory Ridge Water Storage Tank Relocation, County, West Virginia	WV American Water PO Box 1906 Charleston WV 25327	\$1,000,000	2006	Yes
Winfield High School Expansion Winfield, West Virginia	Putnam County BOE Winfield, WV 25213	\$2,000,000	2006	Yes
Fountain Place Mall Phase 2 Site/Civil Design Logan, West Virginia	Fountain Place Mall PO Box 794 Logan, WV 25601	\$10,000,000	2005	Yes
Jenkin Jones Refuse Piles Mine Reclamation McDowell County, West Virginia	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	\$4,000,000	2005	Yes
Bendale Dam Repair Design Lewis County, West Virginia	WV American Water PO Box 1906 Charleston WV 25327	\$100,000	2005	Yes
RDA of Charleston Olcott Water Study Kanawha County	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	\$50,000	2004	Study
Stonecoal Creek Complex Refuse AML&R Raleigh County	WVDEP/AML&R 601 57 <sup>TH</sup> Street SE Charleston WV 25304	\$4,000,000	2004	Yes
Pond Gap Waterline Extension Kanawha County	WV American Water/RDA of Charleston-Kanawha Co.	\$2,000,000	2004	Yes
Tri-State Gaming Parking Expansion Commercial Site Development Kanawha County	Tri-State Gaming Center PO Box 7118 Cross Lanes WV 25356	\$1,500,000	2004	Yes
Union Ridge Waterline Extension Cabell County	WV American Water/RDA of Charleston-Kanawha Co.	\$2,000,000	2004	Yes

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

NAME AND ADDRESS OF OWNER

ESTIMATED CONSTRUCTION COST

YEAR

CONSTRUCTED (YES OR NO)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Witcher Creek Water Line Design	WV American Water PO Box 1906 Charleston WV 25327	\$550,000	2004	Yes
Southridge Expansion Commercial Site Development Kanawha County	RidgeLine, Inc. 400 Second Avenue So. Charleston, WV 25303	\$8,000,000	2003	Yes
Home Depot Commercial Site Development Kanawha County	Ridge Line, Inc. 400 Second Avenue So. Charleston, WV 25303	\$2,000,000	2003	Yes
WV Osteopathic Medical School, Site Development, Greenbrier County	WV School of Osteopathic Medicine 400 North Lee Street Lewisburg, WV 24901	\$50,000	2003	Yes
Toyota Wetland Wetland Mitigation Putnam County	Toyota Motor Corporation of WV, Inc. 1 Sugar Maple Lane Buffalo, WV 25033	\$120,000	2003	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE FOR WHICH YOUR FIRM AS RESPONSIBLE)		WORK			
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
Fairmont State University Campus Improvements Fairmont, West Virginia	Fairmont State University 1201 Locust Avenue Fairmont, WV 26554	\$1,000,000	2007	Yes	Omni Associates
New Teays Elementary Civil, Site Design, Surveying Scott Depot, West Virginia	Putnam County BOE Winfield, WV 25213	\$1,000,000	2008	Yes	Williamson Shriver Architects
Mountain State University Health Science Building Civil/Site/Surveying Beckley, WV	Mountain State University PO Box 9003 Beckley, WV 25802-9003	\$1,500,000	2007	Yes	Dan Sneed Architects
WVU Recreation Center Master Plan Morgantown, WV	West Virginia University	\$2,000,000	2006	No	Omni Associates
Doddridge County High School Doddridge County, West Virginia	Doddridge County BOE 104 Sistersville Pike West Union, WV 26456	\$1,500,000	2006	Yes	Williamson Shriver Architects
Capon Bridge Intermediate School Hampshire County, West Virginia	Hampshire County BOE 46 South High Street Romney, WV 26757	\$1,000,000	2006	Yes	Williamson Shriver Architects
Fairmont Public Safety Building, Fairmont, West Virginia	City Fairmont 200 Jackson Street Fairmont, West Virginia 26554	\$4,000,000	2005	Yes	Omni Associates
Jefferson High School Jefferson County, West Virginia	Jefferson County Schools 110 Mordington Ave. Charles Town, WV 25414	\$2,000,000	2005	No	Helbing Lipp, Ltd.
Lincoln County 911 Center Civil, Site Design Lincoln County, WV	Lincoln County Commission Courthouse Offices Hamlin, West Virginia 25523	\$400,000	2004	Yes	Omni Associates

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 AS RESPONSIBLE)

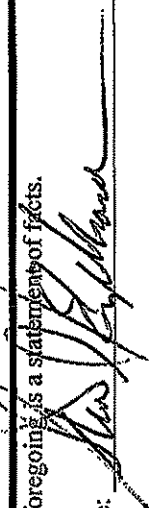
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
WYDEP Headquarters Building, Site/Civil, Survey Kanawha County, WV	WYDEP 601 57 <sup>th</sup> Street SE Charleston WV 25304	\$30,000,00.00	2004	Yes	BBL-Carlton
Grafton High School Civil, Site Design Grafton, WV	Taylor Co. BOE 1 Prospect Street Grafton WV 26354	\$1,000,000	2004	Yes	Williamson Shriver Architects, Inc.
Fairmont Middle School Civil, Site Design Fairmont, WV	Marion Co. BOE 200 Gaston Avenue Fairmont WV 26554	\$1,600,000	2004	Yes	Omni Associates
Kanawha Co. 911 Civil, Site Design Kanawha Co., WV	Kanawha County Commission 407 Virginia Street E Charleston WV 25301	\$800,000	2004	Yes	Kreps & Kreps
WV Parking Garage, Site Plan, Geotech Charleston, WV	WV Public Service Commission 201 Brooks Street Charleston, WV 25301	\$500,000.00	2003	Yes	Associated Architects

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.

Mr. John James, P.E., is a senior geotechnical engineer with TERRADON. He brings over 39 years of soils and reclamation design experience to the project and will serve as Project Manager.

TERRADON has extensive experience in both wet and dry mine seals, with or without bat gates. Our recent experience with Stonecoal creek had over two dozen mine seals. In addition, we have done regrading on numerous other refuse piles and highwalls including Jenkin Jones, Micajah, Linger, Camp Mahonegan, Cedar Creek, and Tappers Creek and Gerath Landslides. Also, we have designed the regrading for numerous other private projects, with great emphasis on providing balanced projects.

The foregoing is a statement of facts.

Signature:  Title: Director of Personnel

Printed Name: Steven T. Engelhardt

Date: February 25, 2008