

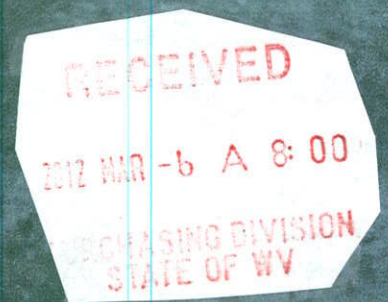
Expression of Interest  
Engineering Design Services and Construction Monitoring

# Milam Ridge Refuse Pile Project Wyoming County, West Virginia

DEP15605

West Virginia  
Department of  
Environmental Protection

Office of Abandoned Mine Lands  
and Reclamation



Consulting Engineers

1428 Main St  
P.O. Box 1309  
Princeton, WV  
24740  
304-431-7800  
304-425-0445 (f)



# Milam Ridge Refuse Pile Project

for the West Virginia Department of Environmental Protection  
Office of Abandoned Mines and Reclamation

March 6, 2012

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1428 Main Street  
P.O. Box 1309  
Princeton, West Virginia 24740

Phone: 304-431-7800  
Fax: 304-425-0445  
E-mail: [engineer@pentree.com](mailto:engineer@pentree.com)



## History of the Firm

Pentree, Incorporated began providing utility-based engineering services in 1965 when the Pentree Division of Bennet-Nave-Thomas incorporated. Originally based in Oak Hill, in 1973 a branch office was opened in Princeton.

Since then our firm has worked to maintain state of the art engineering means and methods as well as provide traditional oversight and technical assistance. We strive to provide the most efficient and accurate design for site development, construction monitoring, mapping, transportation, wastewater, water and surveying services. Additionally, Pentree offers the only in-house mapping and photogrammetry service in the State of West Virginia.

For over forty seven years, we have provided our technical expertise in all aspects of engineering and field services.

Since 1971 Pentree, Incorporated has offered the only in-house photogrammetry service in the state of West Virginia



## Experience

Over the past century, Pentree, Incorporated has provided design and construction monitoring services for utility, site development, highway, bridge, airport and community enhancement projects throughout Southern West Virginia.

On the following pages are examples of specific recent projects that represent our abilities with drainage and stabilization projects that are comparable in scope of services similar to the needs of the WVDEP for the Stowe Refuse Pile design project.



## Experience

### **King Coal and Coalfields Expressway Interchange**

### **McDowell and Wyoming Counties**

#### **Owner/Contact:**

**West Virginia**

**DOH**

**Ali Sadeghian, Project Manager**

**Division of Highways**

**Bldg 05 Room A-317**

**State Capital Complex**

**Charleston, WV 25305**

**304-558-9745**



Study and complete design of final plans for a major new interchange. Study involved four alternative configuration schemes for the interchange. Final plans included two additional interchanges, five miles of interstate, expressway - roadway and eleven (11) bridges and required over 6 ½ million cubic yards of excavation.



## Experience

**City of Oak Hill  
Phased Drainage  
Projects**

**Fayette County**

**Owner/Contact:  
Bill Hannabass, City Manager  
City of Oak Hill  
P.O. Box 1245  
Oak Hill, WV 25901  
304-469-9541**



Pentree, Incorporated provided the City of Oak Hill with a study, preliminary and final design plans, and specifications for management of approximately 2,200 acre watershed which created flooding along the path of Arbuckle Creek and throughout the city limits. The first phase of the project consisted of replacement of eleven culverts totalling 1,252 lineal feet. The new culverts were designed to carry a 50-year flood and alleviate consistent annual flooding along the banks of Arbuckle Creek. Pentree, Incorporated has worked closely with the West Virginia DEP to satisfy Soil Conservation and wetlands concerns. Phase II of the project is in the Virginia Street/ Trump Avenue area of the City as shown in the construction pictures below.

Pentree has now completed Phases I, II and III of these drainage improvements, with plans to continue improvements as funding becomes available.



## Experience

**Eastern Wyoming  
Public Service District  
Itman Bud Mountain  
Water Project**

**William Baisden Chair  
EWPSD  
P.O. Box 506  
Logan, WV 25601  
304-946-2641**



Project consists of five contracts to improve and upgrade the Eastern Wyoming Public Service District's water system. This project includes a Water Treatment Plant, Water Storage Tanks, an upgrade of the Lower Gulf Water System and an upgrade of the Upper Gulf Water System. The design called for the closure of four mine portals, one of which was sealed with the capacity to continue to provide a raw water source for the District. The other three portals were wet sealed with allowance for controlled overflow. This project was partially AML Funded.

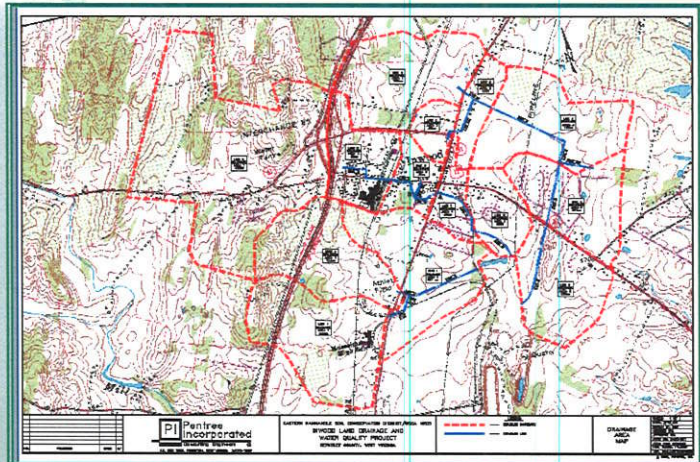


## Experience

### **Inwood Watershed Project**

**USDA/NRCS  
Eastern Panhandle  
Soil Conservation Service**

**Donald Dirting  
Conservation Project  
Specialist  
State of West Virginia  
Soil Conservation Agency  
1450-1 Edwin Miller Blvd.  
Martinsburg, WV**



The Study involved an 827acre area just south of the Youth Fairgrounds in Berkeley County, WV. The project was divided into three phases to allow for staged funding. The project includes the construction of drainage piping, drop inlets, headwalls and open channel ditch lines to carry the storm water away from the area during and after a storm event. Professional services for this project are closely aligned with the goals of the Commission for the proposed project.



## Experience

### **US Gypsum**

**George Rolen**  
**US Gypsum**  
**6072 Main Street**  
**Saltville , VA 24370**  
**276-496-7733**

**Washington County, VA**



Pentree, Incorporated, provided engineering and design services for the relocation of Routes 91 and 745 in Washington County due to subsidence associated with mine abandonment. In conjunction with the roadway relocation project, design for the relocation of approximately 5,000 feet of waterline for the Town of Saltville and 6,000 feet of waterline for the Washington County P.S.A. Additional design provided for an upgrade to one of Saltville's raw water sources and associated water treatment processes.



## Professional Qualifications

*Pentree, Incorporated will assign a team of talented and experienced engineers and firm principals to this project. Each member of this team brings a specific area of expertise that is essential for a successful project.*

**John Tuggle, P.E., P.S.**, President of Pentree, Inc. is the **Principal-In-Charge** and will serve as **Project Manager**. He is actively involved in the daily management of the firm. Mr. Tuggle's expertise and knowledge of project management and civil engineering will assure you of a quality project that meets your specifications.

**Bob Hazelwood, P.E., P.S.** will serve as **Chief Engineer** for the project. Mr. Hazelwood will be responsible for overseeing all technical aspects of the project. Mr. Hazelwood has over 25 years of experience in the evaluation and design of AML funded projects.

Mr. Hazelwood will be assisted by, **Zane Summerfield**, who will provide analysis and mining expertise for the design. **Gregg Inman EIT** will provide technical and design assistance for the project.



## John W. Tuggle, P.E., P.S. Principal-In-Charge

Mr. Tuggle joined Pentree, Incorporated in 1985 and serves as President and Principal-In-Charge for the firm. His primary responsibility is the oversight of all firm projects. Mr. Tuggle has extensive experience working with various regulatory and funding agencies, and is extremely knowledgeable of contract preparation, analysis and interpretation. He has also recommended and assisted numerous clients in securing the best source of funding to suit their needs. Mr. Tuggle has been involved with various types of projects including:

- Highways and Roads
- Subdivision Development
- Access Roads
- Storm Water Management
- Industrial Park Site Development
- Water Treatment Plants
- Water System Upgrades
- Water Line Extensions
- Wastewater Treatment Plants
- Wastewater System Upgrades
- Wastewater Collection Extensions

### Education:

B.S. Civil Engineering Technology, 1982 Bluefield State College

### Active Registrations:

Professional Engineer, 1988 #011845, State of West Virginia

Professional Engineer, 2011 #049260, State of Virginia

Professional Surveyor, 1995 #1176, State of West Virginia

### Project Experience:

#### King Coal Highway/Coalfield Expressway

Project Oversight, Principal-In-Charge

#### Gauley River Public Service District Mt. Olive, Jodie & Smith Branch Emergency - Project Manager

Twentymile and Route 39 / Peters Creek Water Line Extension Project – Project Manager, Contract and Construction Administration; Summersville Phases I, II & III - Principal-In-Charge (Partial AML funding)

#### Ravencloft-McGraws-Saulsville Public Service District - R.D. Bailey Regional Water System - Principal-In-Charge Regional Water System

Cowen Public Service District Camden Water Treatment Plant Upgrade and Water Line Extension Project; Sanitary Sewer Line Extension Projects – Project Manager, Contract and Construction Administration Upper Glade Phase I&II - Principal-In-Charge (partial AML funding)

#### Berkeley County Public Service Sewer District Baker Heights Wastewater Treatment Plant, Inwood Wastewater Treatment Plant, Ecolab and Apache Pump Station – Principal-In-Charge

Jefferson County Public Service District Breckenridge Pump Station, NPDES Permit Renewal and District Plan Review; Mountain Water Project - Principal-In-Charge

#### City of Mount Hope Kilsyth Utility Extension; Wastewater Treatment Plant Upgrade - Principal-In-Charge

Green Valley-Glenwood County Public Service District Various Wastewater Projects – Project Oversight, Contract and Construction Administration

#### McDowell County Prison Site Development - Principal-In-Charge

Webster County Industrial Park – Project Manager, Contract and Construction Administration

City of Oak Hill Sanitary Board Wolf Creek Park Sanitary Sewer Service, Fayette Plateau Package Plant and Potential Sanitary Sewer Plant Upgrade; Principal-In-Charge, Contracts 3-9 Wastewater Collection Upgrades - Project Manager, Contract and Construction Administration

Town of Fayetteville Nickelville Sewer Project – Principal-In-Charge



**Robert D. Hazelwood, P.E., P.S.**  
**Vice President, Chief Engineer**

Mr. Hazelwood joined Pentree, Incorporated in 1979 and serves as Executive Vice President for the firm. In this capacity, his primary responsibility is to provide Project Management for projects. Mr. Hazelwood's experience includes preliminary and final design, preparation of contract documents and specifications and project management. Additionally, Mr. Hazelwood has extensive knowledge working with the WVDEP AML for funding assistance with several large projects in the southern part of the State.

**Education:**

M.S. Sanitary Engineering, 1976, VPI and State University

B.S. Civil Engineering, 1975, West Virginia Institute of Technology

**Active Registrations:**

Professional Engineer, 1980 #008452, State of West Virginia

Professional Surveyor, #1179 State of West Virginia

**Project Experience:**

**Eastern Wyoming PSD;** Mullens Wyco Water Project - Water Treatment Plant, Water Storage Tanks, An Upgrade Of The Lower Gulf Water System And An Upgrade Of The Upper Gulf Water System, Itman Bud Mountain Water Project (AML Funded Water Projects)

**Ravenciff-Mcgraws-Saulsville Public Service District** Water Projects – Design Engineer And Quality Control multiple AML Funded Water Projects

**Deer Run Subdivision;** 13 Lots On 14 Acres – Design Engineer And Quality Control

**Pleasant Valley Estates;** 23 Lots On 17 Acres - Design Engineer And Quality Control

**Twin Oaks Subdivision;** 18 Lots On 12 Acres - Design Engineer And Quality Control

**Greenbrier County Public Service District #2** Sanitary Sewer Collection System And Wastewater Treatment Plant – Design Engineer And Quality Control

**Red Sulphur Springs Public Service District** Various Sanitary Sewer And Water Projects – Design Engineer And Quality Control

**Green Valley-Glenwood Public Service District** Sanitary Sewer Projects Including A 1.5 MGD Wastewater Treatment Plant, Sewer Line Extensions And Upgrades – Design Engineer And Quality Control

**Edray Technical Park,** Pocahontas County, West Virginia – Design Engineer And Quality Control

**Fountain Springs Industrial Park,** Monroe County, West Virginia – Design Engineer And Quality Control

**Peterstown Satellite Medical Clinic Addition,** Monroe County, West Virginia – Design Engineer And Quality Control



**Gregg Inman, EIT**  
**Design Engineer**

Mr. Inman joined Pentree, Incorporated in 2005 and serves as Design Engineer and for the firm. In this capacity he has a variety of responsibilities including, but not limited to:

- Drafting
- Utility Design
- Site Design
- Permitting
- Specifications
- Technical Writing

**Education:**

B.S. Civil Engineering Technology – 2005 Bluefield State College

**Active Registration:**

Registered EIT – State of West Virginia

**Project Experience:**

**City of Oak Hill** – Sanitary Sewer Relocation - Design, Drainage Phase III - Project Manager

**Cowen PSD** - Upper Glade Phase I - Project Manager

**Fort Chiswell** Wastewater Treatment Plant – CADD Design

**Eastern Wyoming PSD** Mullens-Wyco Water Treatment Plant – Drafting, Design

**Town of Davy** Big Sandy-Asco Water Line Extension – Design

**Gauley River Public Service District** Smith Branch Water Line Relocation Project – Design

**Town of Fayetteville** - Nickelville Road Sidewalks Phase II - Project Manager

**Town of North Fork** – Water Line Extension Project – Design

**Page-Kincaid PSD** Sanitary Sewer Extension – Package Plant design

**Glen White / Trap Hill PSD** – Phase I and II Water Line Extension Project - Design, Project Manager

**American Electric Power** – McGraw Substation – Site Development and Grading – Design

**Berkeley County Public Service Sewer District** – Opequon and Baker Heights Pump Stations - Design



## *J. Zane Summerfield Senior Civil Analyst*

Mr. Summerfield joined Pentree, Incorporated in 1998 and serves as Senior Civil Analyst for the firm. He is responsible for the analysis of clients' existing data to determine their current situation. Mr. Summerfield also prepares facility plans, engineering reports, and specifications and plan sets. Additionally, Mr. Summerfield provides general design assistance, permit preparation and environmental reporting. Prior to his current position with the firm, Mr. Summerfield served as permit specialist for a mining engineering firm, having a total work experience of thirty years.

### **Education**

B.S. Mining Engineering, 1982, West Virginia Institute of Technology

A.S. Mining Engineering, 1976, West Virginia Institute of Technology

AUTOCAD 1992, Carver Career Center

### **Project Experience:**

**Elkhorn PSD Facility Plan** – Facility Plan detailing options for compliance with existing rules and regulations, research, analysis, preliminary design, cost estimate, engineering reports, funding applications

**City of Mount Hope**– Review and analysis of water treatment plant and engineering report.

**Ecolab Pretreatment WWTP Upgrade** - Analysis of WWTP performance, engineering reports and preliminary design for the upgrade of the existing 0.05 MGD to 0.1 MGD pretreatment facility, assisting client with budgeting documents

**City of Mount Hope**– Analysis of WWTP performance, facility plan for the upgrade of the existing oxidation ditch wastewater treatment plant and collection systems for outlying communities, funding applications, preparation of construction drawings and contract documents, permit applications. Engineering liaison with funding agencies and City Council, construction project management

**Jefferson County PSD**– Alternative Treatment Facility Plan – Review of current alternative waste water treatment methods including Membrane Bio-Reactors, Sequential Batch Reactors, Vertical Loop Reactors, Free Water Surface and Subsurface Flow Wetlands, Facultative (aerobic-anaerobic) and Aerated lagoons, Recirculating Sand Filters, Mound Systems, Reed Beds and other onsite treatment systems

### **Experience with other firms:**

- **Mine Permitting** – Design and permitting of mountaintop and contour surface and deep mine sites including high wall miner and deep mines in known acid producing seams. Geological mapping and reports, reserve analysis, economic modeling
- **Oil and Gas Well Permitting** – Plat preparation, reclamation plans, review with Oil and Gas inspectors and permit documents for wells in West Virginia
- **Oil and Gas Well Drilling Pit Treatment** – Develop and run a Oil and Gas well pit treatment program for treatment and discharging drilling waste pits in remote locations



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

PROJECT NAME: **RFQ# DEP15605** DATE (DAY, MONTH, YEAR) **February 28, 2012** FEIN **55-0483692**

1. FIRM NAME **Pentree, Incorporated** 2. HOME OFFICE BUSINESS ADDRESS **1428 Main St./P.O. Box 1309  
Princeton, WV 24740** 3. FORMER FIRM NAME **Bennett-Nave-Thomas**

4. HOME OFFICE TELEPHONE **(304) 431-7800** 5. ESTABLISHED (YEAR) **1904** 6. TYPE OWNERSHIP **Individual Partnership Joint-Venture** **Corporation X** 6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) **YES NO X**

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE  
**1428 Main St/P.O. Box 1309/Princeton, WV 24740/304-431-7800/John Tuggle/3**

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM 8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS  
**John W. Tuggle, P.E., P.S. Principal in Charge**  
**Robert D. Hazelwood, P.E., P.S. Vice President**

9. PERSONNEL BY DISCIPLINE

3	ADMINISTRATIVE	—	ECOLOGISTS	—	LANDSCAPE ARCHITECTS	—	STRUCTURAL ENGINEERS
—	ARCHITECTS	—	ECONOMISTS	—	MECHANICAL ENGINEERS	—	9 SURVEYORS
—	BIOLOGIST	—	ELECTRICAL ENGINEERS	—	MINING ENGINEERS	—	TRAFFIC ENGINEERS
6	CADD OPERATORS	—	ENVIRONMENTALISTS	3	PHOTOGRAMMETRISTS	—	1 OTHER - Information Tech
—	CHEMICAL ENGINEERS	—	ESTIMATORS	—	PLANNERS: URBAN/REGIONAL	—	
3	CIVIL ENGINEERS	—	GEOLOGISTS	—	SANITARY ENGINEERS	—	
5	CONSTRUCTION INSPECTORS	—	HISTORIANS	—	SOILS ENGINEERS	—	
2	DESIGNERS	—	HYDROLOGISTS	1	SPECIFICATION WRITERS	—	33 TOTAL PERSONNEL
—	DRAFTSMEN	—					

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: **3**  
 \*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.



11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential 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 experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

YES Description and Number of Projects: Pentree Incorporated has completed design for 13 partially impacted AML water projects: among these include the Keyrock Water Extension Project for Ravenc Cliff-Mcgraws-Saulsville PSD in Wyoming County and Mullens-Wyco Water Project for the Eastern Wyoming PSD also in Wyoming County. The EWPSD project was the 2006 EPA Region 9 Award winning project for sustainable public health protection encompassing seven failing, flooded and abandoned water systems. Additionally, we provided engineering services for the first in the state of West Virginia partially impacted AML project for Gauley River PSD with the Jodie Waterline Extension Project in 1998.

B. Is your firm experienced in Soil Analysis? No

Description and Number of Projects:

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: Through our work on water system projects for various PSD's and Municipalities, we have developed hydraulic modeling of systems, and use Kentucky Pipe 2010 for our AML design team analyses.

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

YES Description and Number of Projects: Every water and wastewater project Pentree has designed in the last 35 years has been photogrammetrically produced by our in-house photogrammetry department.

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 Pentree, Incorporated has designed over 62 water line extension and replacement projects in the past 47 years of business. Projects include lines, booster stations, water treatment plants and storage facilities.

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 EXPERIENCE	
<b>Tuggle, John W. P.E., P.S. President</b>		YEARS OF AML DESIGN EXPERIENCE: 11	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>26</b>
Brief Explanation of Responsibilities		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>26</b>	
<p>Mr. Tuggle serves as President of Pentree, Incorporated. Mr. Tuggle is Principal in Charge for public utility projects including sanitary sewer, water and storm water management. His primary responsibility is the oversight of all firm projects. In this capacity he is responsible for feasibility studies and design, regulatory and funding assistance for state, federal and private clients. Additionally, he has extensive experience working with funding and regulatory agencies in conjunction with projects. In the capacity of Principal-In-Charge, for this AML design project, he will work closely with the Project Manager to ensure timeliness of the projects, client satisfaction and oversee budgetary aspects.</p>			
EDUCATION (Degree, Year, Specialization)			
<b>B.S., Bluefield State College, 1985 – Civil Engineering Technology</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
West Virginia Rural Water Association			
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	
<b>Hazelwood, Robert D. P.E., P.S. Vice President</b>		YEARS OF AML DESIGN EXPERIENCE: 10	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>32</b>
Brief Explanation of Responsibilities		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>32</b>	
<p><b>Robert D. Hazelwood, P.E., P.S. Vice President of Pentree, Inc. will serve as Project Manager / Project Engineer.</b> His major responsibility will be for project oversight of all design and construction aspects. Mr. Hazelwood has extensive experience in water line extension projects throughout West Virginia, particularly Southern West Virginia. Additionally, Mr. Hazelwood was/is Project Manager/Project Engineer for the Mullens/Wyco Water System Upgrade, the Keyrock Water Project, Itmann/Bud Mountain Water Project, Glen Fork-Sabine Water Project and the R.D. Bailey Regional Water System and Extension Project - all of which have extensive funding with the WVDEP AML. As such, Mr. Hazelwood is well versed in AML reporting and deadline requirements.</p>			
EDUCATION (Degree, Year, Specialization)			
M.S., Sanitary Engineering, 1976 – Virginia Polytechnic Institute			
B.S., Civil Engineering, 1975 – West Virginia Technical Institute			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
West Virginia Rural Water Association			
REGISTRATION (Type, Year, State)			
P.E. 1980 - WEST VIRGINIA #008452			
P.S. 1995 – WEST VIRGINIA #1179			



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:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
0	0	8	8

**Shields, Robert G. (Gary) P.E., P.S.**  
**Survey Department Manager**

Brief Explanation of Responsibilities: Mr. Shields joined Pentree, Incorporated in 2003 and serves as Survey Manager for the firm. Prior to his employment with Pentree, Mr. Shields worked as an Independent Licensed Land Surveyor. Currently, he supervises, assigns and reviews all of Pentree, Incorporated's survey activities. In addition to being a Professional Surveyor, Mr. Shields is also a registered Professional Engineer.

EDUCATION (Degree, Year, Specialization)  
 B.S., 1982, Civil Engineering Technology, Bluefield State College

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  
 West Virginia Society of Professional Surveyors  
 American Society of Civil Engineers

REGISTRATION (Type, Year, State)  
 Professional Engineer, 1990,  
 State of West Virginia #10786  
 Professional Surveyor, 1982  
 State of West Virginia #766  
 Professional Surveyor, 1986  
 State of Virginia #1545

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:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
5	5	5	5

**Inman, Gregg E., E.I.T.**

Brief Explanation of Responsibilities: Mr. Inman joined Pentree in 2005 and serves as Staff Design Engineer and Chief Technician for the firm. In this capacity he has a variety of responsibilities including drafting, utility design, site design, permitting, specifications and technical writing.

EDUCATION (Degree, Year, Specialization)  
 B.S., 2005, Civil Engineering Technology, Bluefield State College

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  
 Registered E.I.T. – State of West Virginia

REGISTRATION (Type, Year, State)  
 Registered E.I.T. – State of West Virginia



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

YEARS OF EXPERIENCE		
YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 15	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 13

Brief Explanation of Responsibilities:

Mr. Summerfield will provide expertise and analysis for the drainage and re-vegetation aspect of this project. Having worked with for the mining industry as a permit specialist and hydrology analyst, his combination of technical and design capabilities will enhance the overall depth of the design team.

EDUCATION (Degree, Year, Specialization)  
 A.S., 1976 West Virginia Institute of Technology, Mining Engineering  
 B.S., 1982 West Virginia Institute of Technology, Mining Engineering

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)

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)



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

We perform our work utilizing the most current methods and equipment available.

SURVEY

Our survey work is accomplished with global positioning systems (GPS) and electronic distance measuring (EDM) survey stations with data gathering capabilities. This equipment includes:

- Total Station Nikon DTM-420
- Total Station Nikon DTM-522
- Auto Level Topcon AT-53
- Auto Level Topcon AT-F2
- Magnetic Locator Schonstedt GA-52-Cx
- Magnetic Locator Dunham&Morrow DML 2000
- Data Collector XYZ Works Fieldbook
- Data Collector Trimble TSC2
- Data Collector SMI Allegro CX
- GPS Ashtech Pro-Mark 2
- GPS Single Frequency
- GPS w/ three receivers
- Transit 1' K&E
- Theodolite Wild T-2
- GPS R8 Trimble Dual Frequency
- GPS Base
- GPS Rover
- GPS Data Collector Trimble Nomad
- Tripods (5)
- Prisms (16)
- Fiberglass Tape 200' (3)
- Fiberglass Tape 100' (2)
- Bipods (2)
- GPS Pole (2)
- Level Rods 25' (2)
- Radio (2) Kenwood TK-2200 Protalk
- Tri-Brach (3)
- Survey Compass (2)

DESIGN CAD CAPABILITIES

AutoCAD Civil 3D Land Desktop Companion 2008 and Microstation V8 software is utilized. Additionally, equipment includes a large format (size E) plotter and scanner.



15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD - WATER DISTRIBUTION PROJECTS

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Keyrock Water Project Wyoming County	Ravenc Cliff-McGraws-Saulsville PSD PO Box 217 McGraws, WV 25875	Preliminary Engineering Reports Review, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$4,300,000	100%
Mullens-Wyco Water Project Wyoming County	Eastern Wyoming PSD PO Box 506 Logan, WV 25601	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$14,587,000	100%
Asco Water Project McDowell County	Town Of Davy PO Box 243 Davy, WV 24828	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$10,000,000	100%
Spanishburg Water Extension Phase 2B Project Mercer County	Lashmeet PSD PO Box 189 Lashmeet, WV 24733	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$1,898,200	100%



1.5. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD - WATER DISTRIBUTION PROJECTS

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Jesse Matheny Water Project* Wyoming County	Ravenclyff-McGraws-Saulsville PSD PO Box 217 McGraws, WV 25875	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$6,164,000	100%
Glen White Trap Hill Water Phase I Raleigh County	Glen White Trap Hill PSD PO Box 100 Fairdale, WV 25839	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$5,315,000	100%
Itmann/Bud Mountain Water Project Wyoming County	Eastern Wyoming PSD PO Box 506 Logan, WV 25601	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$3,064,000	100%
Jesse Matheny Water Ph II Project * Wyoming County	Ravenclyff-McGraws-Saulsville PSD PO Box 217 McGraws, WV 25875	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$2,027,000	100% Design



15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD - WATER DISTRIBUTION PROJECTS

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Page-Kincaid Water Project Fayette County	Page-Kincaid PSD PO Box 165, Hwy 61 Kincaid, WV 25119	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$2,400,000	100%
Greenville Water Project Monroe County	Red Sulphur PSD PO Box 697 Peterstown, WV 24963	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$2,728,000	75%
Summersville Water Line Extension Nicholas County	Gauley River PSD PO Box 47 Swiss, WV 26690	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	Phase I \$4,649,702 Phase II \$2,322,890 Phase III \$2,341,622	Phase I is under construction Phase II is 100% design Phase III is 100% design
Big Sandy Water Project* McDowell County	McDowell County PSD HC 31, Box 436 Welch, WV 24801	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications	\$8,714,120	100% Design
Glen White Trap Hill Water Phase II * Raleigh County	Glen White Trap Hill PSD PO Box 100 Fairdate, WV 25839	Preliminary Engineering Reports, Environmental Studies And Permitting, Preparation Of Plans And Specifications, Survey, Design, Bid Documentation, Review And Recommendation, Construction Management And Inspection	\$5,376,000	100% Design
*Represents partially AML funded projects				







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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Twentymile Water Project Fayette County	Gauley River PSD PO Box 47 Swiss, WV 26690	\$4,600,000	2005	YES
Virginia Street Sidewalks Fayette County	City Of Oak Hill PO Box 1245 Oak Hill, WV 25901	\$242,311	2006	YES
Fort Chiswell Wastewater Treatment Plant Upgrade Ph I&II Wyth County, VA	Wythe County Board Of Supervisors 340 South 6 <sup>th</sup> St Wytheville, VA 24382	Phase I - \$376,000 Phase II - \$4,140,655	2006 2008	YES
Upper Glade Sewer Project Webster County	Cowen PSD PO Box 465 Cowen, WV 26026	\$5,085,876	2007	YES
City Of Oak Hill Sidewalk Repairs Fayette County	City Of Oak Hill PO Box 1245 Oak Hill, WV 25901	\$269,482	2008	YES
Oak Hill Drainage Phase II Fayette County	City Of Oak Hill PO Box 1245 Oak Hill, WV 25901	\$736,870	2008	YES
Gap Mills Water Project Monroe County	Gap Mills PSD PO Box 117 Gap Mills, WV 24941	\$1,898,000	2008	YES
Asco Water Project McDowell County	Town Of Davy PO Box 246 Davy, WV 24828	\$1,500,000	2009	YES
Inwood Wastewater Treatment Plant Upgrade Berkeley County	Berkeley County PSSD PO Box 944 Martinsburg, WV 25401	\$7,600,000	2009	YES
Baker Heights Wastewater Treatment Plant Upgrade Berkeley County	Berkeley County PSSD PO Box 944 Martinsburg, WV 25401	\$8,730,919	2009	YES
Ecolab Wastewater Treatment Plant Upgrade Berkeley County	Ecolab 942 Baker Road Martinsburg, WV 25405	\$1,778,000	2009	YES
Kilsyth Wastewater Extension And Plant Upgrade Fayette County	City Of Mount Hope PO Box 151 Mount Hope, WV 25880	\$4,061,000	2009	YES
Page Kincaid Sewer Project Fayette County	Page-Kincaid PSD Po Box 165, Hwy 61 Kincaid, WV 25119	\$10,800,000	2010	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) - **NON APPLICABLE**


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.

**PLEASE SEE ATTACHED STATEMENT OF QUALIFICATIONS AND SCOPE OF SERVICES**

20. The foregoing is a statement of facts.



Signature: \_\_\_\_\_  
 Title: **PRESIDENT**

Printed Name: **John W. Tuggle, P.E., P.S.**

Date: February 28, 2012



**AML and RELATED PROJECT EXPERIENCE MATRIX**

PROJECT	Exp. Basis C=Corp. P=Personal * Additional Info Provided on Page:	PROJECT EXPERIENCE REQUIREMENTS													PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional					
		Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspector/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	John W. Tugle, President P.E., P.S.	Robert D. Hazelwood, P.E., P.S.	Zane Summerfield, Analyst	Gregg Inman
Eastern Wyoming County P.S.D. Water Project	C			X	X					X	X	X		X		M/P	P	P		
King Coal Highway	C								X					X	X	M/P				
City of Oak Hill Drainage	C				X				X		X			X		P		P	M	
Inwood Drainage Project	C				X				X					X		M		P		
US Gypsum	C	X			X				X							M/P		P		

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



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RFO No. 15605

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 of 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 of 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 exceeds 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: Pentree, Incorporated

Authorized Signature: [Signature] Date: March 5, 2012

State of West Virginia

County of Mercer, to-wit:

Taken, subscribed, and sworn to before me this 5<sup>th</sup> day of March, 2012

My Commission expires January 26, 2020

AFFIX SEAL HERE

NOTARY PUBLIC Melisa Meadows

