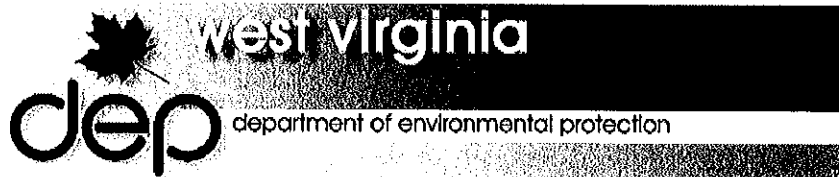
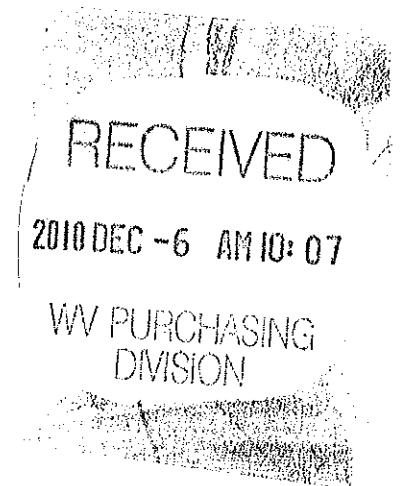




Hatch Mott
MacDonald

**Expression of Interest
for
Professional Engineering Design Services and
Construction Monitoring Services for the
Simpson CK. HW, Tipple & Portals Design**

RFQ # DEP15221





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

Request for Quotation

BID NUMBER
 DEP15221

PAGE
 1

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

RFQ COPY

VENDOR

TYPE NAME/ADDRESS HERE

Hatch Mott MacDonald
 2601 Cranberry Square
 Morgantown, WV 26508

VENDOR

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
11/03/2010				

BID OPENING DATE: 12/07/2010 BID OPENING TIME 01:30PM

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

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Smithy W. Rice</i>	TELEPHONE 304-212-4390	DATE 12-3-10
TITLE Area Manager	FEIN 16-1006700	ADDRESS CHANGES TO BE NOTED ABOVE

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

Cover Letter

Section 1 – Corporate History & Experience

Section 2 – CCQQ – Attachment “B”

Section 3 – RPEM – Attachment “C”



**Hatch Mott
MacDonald**

2601 Cranberry Square
Morgantown, WV 26508
T 304.212.4390 F 304. 594.2814
www.hatchmott.com

December 3, 2010

Mr. Chuck Bowman, Buyer Supervisor
West Virginia Department of Environmental Protection
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

**RE: RFQ # DEP 15221
Expression of Interest for Professional Engineering Design Services and
Construction Monitoring Services for Simpson CK. HW, Tipple & Portals Design
Barbour County, WV**

Dear Mr. Bowman:

Hatch Mott MacDonald (HMM) is pleased to submit this proposal to provide professional engineering design services and construction monitoring services for the West Virginia Abandoned Mine Lands (AML) and Reclamation Program. This project's focus on access road upgrade; highwall backfill; wet mine seal installation; stream bank stabilization; and solid waste removal and disposal are principal areas of expertise within our firm.

Our Morgantown and Charleston offices have several staff members that collectively have more than 100 years of direct design and management experience with AML design projects of all kinds. The Morgantown office employs a total staff of 44 with 4 separate design teams. These design teams consist of an AML experienced lead project manager, a CADD designer, and the necessary support staff to effectively complete this project on time and within budget. We are proud to announce that the Charleston office now employs 6 staff and also has a full design team functioning from that location. Also, please note that 3 members of our staff are certified in Natural Stream Design.

HMM has recently provided design services on 3 separate projects for WVDEP-AML that are almost identical in scope to this project. We presently have experience and back up data of the most current and up to date design details and specifications being used on your projects. Our experienced staffs are knowledgeable with pricing and construction and we are prepared to provide our services right through the design and bidding phases as needed. The many years of staff experience on AML projects makes it easy for us to provide support during the construction phases as well.

We appreciate the opportunity to submit this Expression of Interest and look forward to continuing our working relationship.

Respectfully submitted,

Hatch Mott MacDonald

Richard L. Steinhart, PE
Vice President
T 412.497.2910 F 412.497.2940
richard.steinhart@hatchmott.com

Timothy M. Rice
Senior Associate
T 304.212.4388 F 304.594.2814
timothy.rice@hatchomott.com

[corporate history & experience]

INTRODUCTION

With a lineage stretching back over a century, involvement in the design and construction of the most ambitious infrastructure projects and a multi-disciplined staff with comprehensive engineering skills, Hatch Mott MacDonald (HMM) possesses the practical knowledge and experience needed to meet the technical challenges of any given project. Our approach is strictly client-focused – with a corporate commitment to engineering excellence. HMM provides services for all aspects of engineering projects, from feasibility studies and surveys through design, to project and program management, construction management and supervision, start-up and operations.

LOCAL OFFICES

HMM is headquartered in Millburn, New Jersey and has many offices throughout North America. Regionally, our offices are located at:

405 Capitol Street
Suite 601
Charleston, WV 25301
T:304.356.3010
F: 304.357.9222

2601 Cranberry Square
Morgantown, WV 26508
T 304.212.4390
F 304.594.2814

Gateway View Plaza
1600 West Carson Street
Pittsburgh, PA 15219
T 412.497.2900
F 412.497-2901

CONSULTING AREAS

The resources of HMM are available through the following consulting areas:

- ◆ Construction Engineering Services
- ◆ Contract Operations
- ◆ Environmental Compliance & Remediation
- ◆ Environmental Site Assessment & Remediation
- ◆ Geographical Information Systems
- ◆ Hazardous Waste Management
- ◆ Hydraulic Infrastructure Evaluation & Rehabilitation
- ◆ Hydrogeological Services
- ◆ Industrial Wastewater Management
- ◆ Information Technology & Management
- ◆ Mining Environmental Services
- ◆ Municipal Engineering and Planning
- ◆ Pipeline Services
- ◆ Rails-To-Trails Projects
- ◆ Recreational Facilities
- ◆ Recycling/Solid Waste Management
- ◆ Site Development Engineering
- ◆ Storage Tank Management
- ◆ Stormwater & Watershed Management
- ◆ Transportation Engineering
- ◆ Wastewater Engineering and Management
- ◆ Water Supply Management
- ◆ Wetland / Ecological Studies

STAFFING

Hatch Mott MacDonald was formed as a joint venture between Hatch Associates of Canada, a leading design engineering firm, and Mott MacDonald, headquartered in London, an infrastructure and education consulting engineering firm. The combined resources of Hatch Associates and Mott MacDonald offer a worldwide engineering staff of over 20,000 people. In 2001, HMM acquired the environmental consulting firm of Killam Associates to offer water, wastewater and environmental services throughout North America. Our total US staff is now approximately 1,800 engineers, scientists and technical support personnel.

MANAGEMENT STRATEGIES

HMM uses the "Project Team" approach to efficiently manage and complete projects on time and within specified budgets. A Project Manager directs the team and interfaces with the client to ensure an uninterrupted flow of information. Capable managers draw upon the versatile personnel at HMM to provide pertinent technical knowledge relative to a particular project.

Hatch Mott MacDonald's engineering professionals are fully supported by extensive computer resources (CADD, graphics, and an Information Technology staff), and highly trained field crews for surveying and environmental sampling and monitoring.

From the analysis stage to project implementation, the professional staff of HMM provides clients with cost-effective engineering and planning solutions for their environmental problems. HMM's outstanding reputation is based upon dedicated service to clients and demonstrated technical abilities.

Hatch Mott MacDonald is proud of its established reputation, which is based on efficient project management, technical expertise, and knowledge of regulatory requirements. These features are reflected in HMM's success at maintaining long-term client relationships. Experienced staff and an organizational approach make HMM extremely competent in meeting a client's needs, now and in the future.

The Charleston office is currently staffed to provide one design team with the Morgantown office able to provide four to five different design teams simultaneously. These teams generally consist of a Project Engineer and the necessary design drafting and support staff.

EXPERIENCE AND QUALIFICATIONS

Hatch Mott MacDonald (HMM) is a full-service consulting engineering firm offering both public and private clients a complete range of services from conceptual, feasibility/ planning studies and environmental assessment through preliminary and detailed design to procurement, construction engineering inspection and project and construction management services, as well as operations and maintenance. Headquartered in New Jersey, HMM has hundreds



of staff located in the northeast and Mid-Atlantic regions. More than 1,800 employees in 59 offices throughout the U.S. and Canada will support the local staff. This project will be performed from our Morgantown, WV office.

Our resources in the Appalachian Coal region have grown steadily over the past few years. HMM's focus on mining services has led to a staff of over 50 individuals in this service area. More specifically, the Charleston and Morgantown offices have over 40 staff members dedicated to the mining and energy service area, including engineers, geologists, biologists, scientists, and support staff. This growth is attributed to our corporate commitment to the industry and the values established by HMM. Hatch, one of our parent companies, has been in business for 50 years and focuses on mining services on an international level.

Mining Environmental Services

HMM offers a full spectrum of mining and mining-related environmental and design engineering services. Successfully completed projects range from reserve analyses, permitting and feasibility studies to complex mining and reclamation plans for surface and underground mining installation, prep plants and refuse handling facilities. Versatility is demonstrated by a proven ability to work with large and small operators. Personnel are accustomed to communicating effectively with both multi-department international companies and sole proprietors.

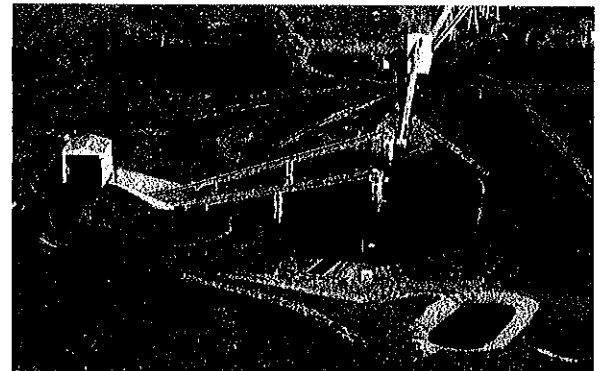


Mine Planning

- ◆ Geological Exploration
- ◆ Reserve Studies
- ◆ Economic Evaluations
- ◆ Aerial Mapping
- ◆ Drilling
- ◆ Environmental Site Assessment
- ◆ Natural Stream Design
- ◆ Stream Mitigation

Surface Mining

- ◆ Surface Mining Permits
- ◆ Auger Mining Permits
- ◆ Feasibility Studies
- ◆ Land Reclamation & Remediation
- ◆ Permit Transfers
- ◆ Pre-Blast Surveys
- ◆ Acid Mine Discharge (AMD) Remediation



Underground Mining

- ◆ Deep Mine Permits
- ◆ Mine Design & Mapping
- ◆ Ventilation Plans
- ◆ Subsidence Plans
- ◆ Surface Support Plans
- ◆ Air Shaft Design & Coordination
- ◆ Incidental Boundary Revisions (IBR)
- ◆ Pre-Subsidence Surveys

Professional Surveying

- ◆ Underground Coal Mine Surveys
- ◆ Stockpile Volumetric Surveys
- ◆ Construction Surveys
- ◆ Boundary Retracement
- ◆ Topographic Surveys
- ◆ Horizontal & Vertical Control Networks
- ◆ GIS/GPS Surveys

Support Facilities

- ◆ Preparation Plant Permits
- ◆ Coal Yard & Loadout Permits
- ◆ Refuse Pile Reprocessing Permits
- ◆ Site Planning
- ◆ Air Quality Permits
- ◆ Coal Refuse/Fly Ash Permits
- ◆ Coal Refuse/Fresh Water Impoundments
- ◆ Portal Facilities Design & Construction Management

Operations Support

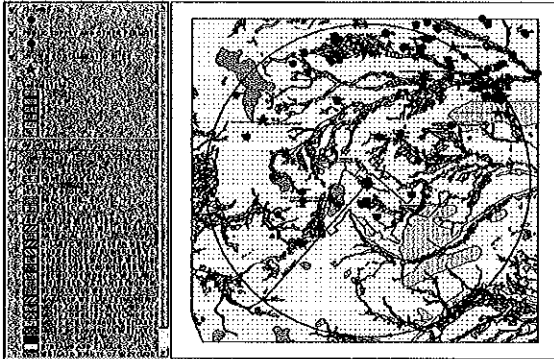
- ◆ Small Operator Assistance Program (SOAP) Preparation
- ◆ Thermal-graphic Equipment Analyses
- ◆ Machine & Equipment Appraisal & Analyses
- ◆ Conveyor System Analyses
- ◆ Electrical System Analyses

Geographic Information Systems

Over the last decade, HMM has responded to its clients' growing needs for Geographical Information System (GIS) through investments in software, hardware and employee training. The ability of GIS to integrate central databases with mapping that can be shared throughout an organization, is making this information technology a standard for government agencies, utilities and private companies. HMM provides a full range of GIS services in the areas of: water/wastewater utility, stormwater utility, municipal government, hydrology and hydraulics, and natural resources.

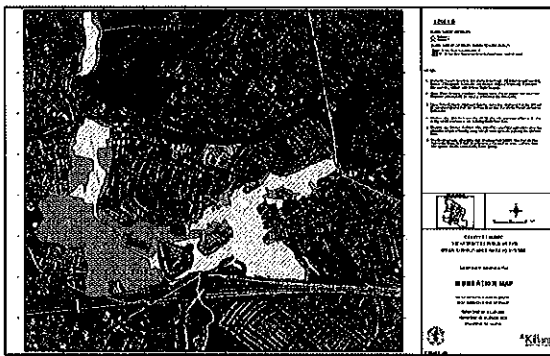
Software Capabilities

- ◆ Infrastructure Modeling
- ◆ Document Management
- ◆ Hydrologic/Hydraulic Modeling
- ◆ Groundwater Modeling
- ◆ Coordinate Geometry (COGO)
- ◆ Geographical Positioning Systems (GPS)
- ◆ Digital Elevation/Terrain Modeling
- ◆ Integration of Third Party Modeling Software
- ◆ Internet/Intranet

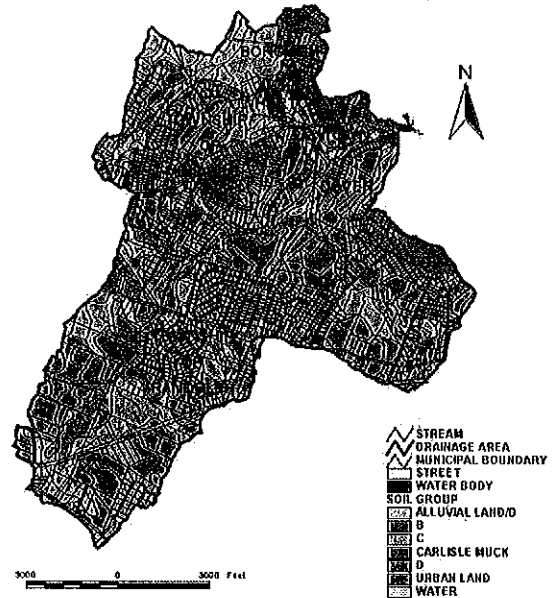


Software Applications

- ◆ ARC/INFO©
- ◆ ArcView©
- ◆ ArcCAD
- ◆ ArcFM
- ◆ AutoCAD/AutoCAD Map
- ◆ Microstation



Major Soil Grouping In Jackson Brook Drainage Area

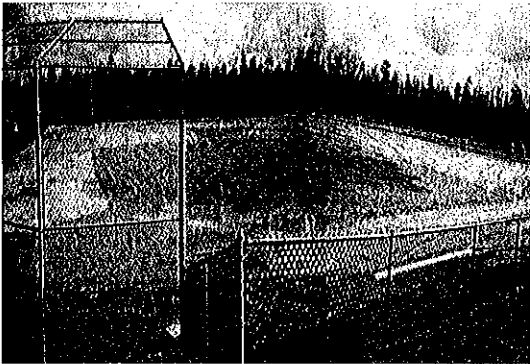


Hardware Resources

- ◆ Hewlett-Packard 1055 & 755 Design Jet Plotters
- ◆ Dell Precision Workstation (750 MHz Processors with 256K RAM)
- ◆ Network through a 6300 Dell PowerEdge Server
- ◆ RAID-5 Array for Data Storage
- ◆ XEROX 8830 Scanners & Printers

Construction Engineering Services

HMM's established reputation in providing construction observation and project management services is based upon the firm's experienced professionals' technical expertise and knowledge of the construction field. Interaction with the firm's various design teams is undertaken so that the latest technologies will be implemented with the highest efficiency. State-of-the-art laser and computerized surveying equipment and techniques are employed for data gathering, processing, reporting and construction control.

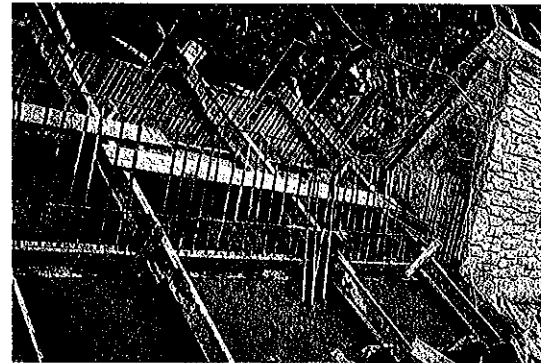


Facilities

- ◆ Wastewater & Water Treatment Facilities
- ◆ Mining Facilities
- ◆ Biosolids Removal Facilities
- ◆ Pumping Stations
- ◆ Dams & Dikes
- ◆ Materials Recycling Facilities
- ◆ Solid Waste Transfer Stations
- ◆ Vehicle Maintenance Facilities
- ◆ Parking Garages
- ◆ Storage Facilities
- ◆ Airport Hangars & Terminals
- ◆ Office & Administration Buildings
- ◆ CSO & SSO Rehabilitation
- ◆ Sanitary Sewers & Water Mains
- ◆ Recreational Facilities

Project Management

- ◆ CPM Scheduling Review
- ◆ Cost Controls
- ◆ Shop Drawing Review
- ◆ Payment Requests Processing
- ◆ Change Order Management
- ◆ Record Plan Preparation
- ◆ Claims Avoidance/Dispute Resolution
- ◆ Progress Meetings
- ◆ Information Management

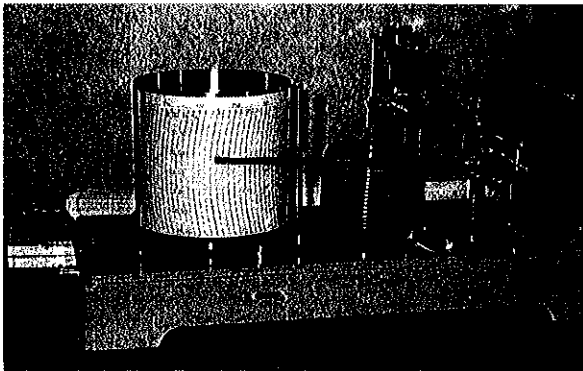


Resident Engineering

- ◆ Construction Surveys
- ◆ Construction Observation
- ◆ Concrete Testing & Inspection
- ◆ Safety Monitoring

Hydrogeological Services

HMM's hydrogeological specialists are employed on a wide range of projects, from small urban properties to entire watersheds. The majority of our staff holds advanced degrees and are registered professionals. They evaluate and develop groundwater resources; delineate contamination and predict impacts on human and ecological receptors; provide the technical basis for the design of subsurface wastewater disposal, construction dewatering and aquifer remediation systems; generate hydrogeologic models, frame computer simulations and perform statistical analyses for risk assessments and resource prospecting; provide full technical assistance in permitting in all these areas; provide peer review for the work of outside hydrogeologists; advise legal counsel and provide expert testimony.



Groundwater Resources

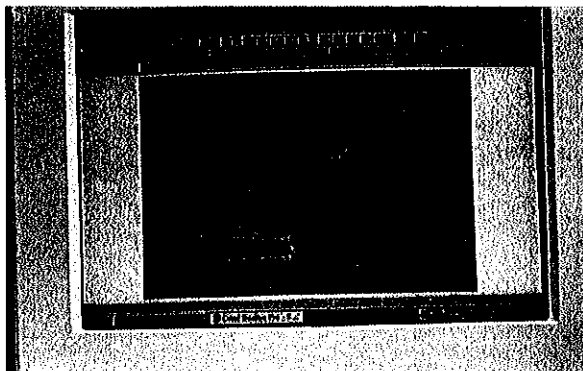
- ◆ Resource Evaluations
- ◆ Water Allocation Permits
- ◆ Well-Head Protection Area Delineation
- ◆ Diversion Impact Assessments

Dewatering

- ◆ Dewatering System Design
- ◆ Temporary Water Allocation Permits
- ◆ Dewatering Permits-by-Rule

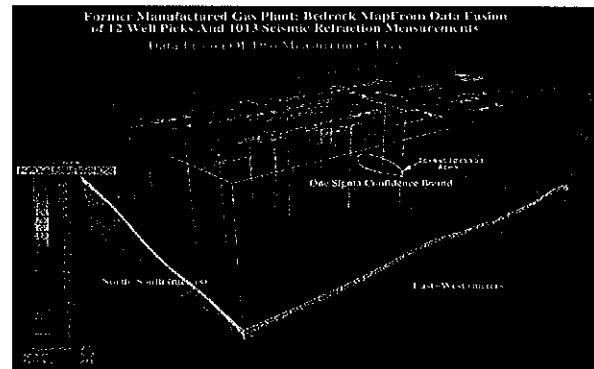
Discharge to Groundwater

- ◆ Hydraulic Mounding Analysis
- ◆ Discharge to Groundwater Permits
- ◆ Dilution Modeling



Remedial Design

- ◆ Plume Control
- ◆ Treated Wastewater Disposal System Design
- ◆ Contaminant Fate & Transport Modeling
- ◆ Technical Support for Natural Remediation
- ◆ Aquifer Reclassification
- ◆ Ground Water Chemistry
- ◆ Expert Testimony
- ◆ Peer Review



Landfill Investigations

- ◆ Leachate Generation & Control Modeling
- ◆ Landfill Gas Venting System Design
- ◆ Aquifer Impact Assessments

Aquifer Investigations

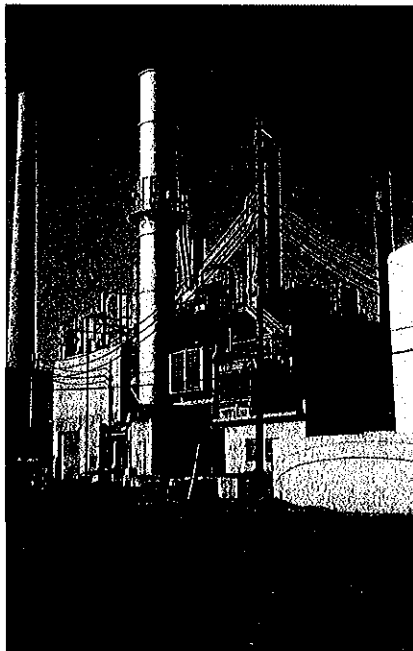
- ◆ Pumping Test Design & Analysis
- ◆ Aquifer Modeling
- ◆ Simulation of Groundwater Flow
- ◆ Aquifer/Surface Water Interaction Analyses

Environmental Compliance Services

Effective management of ongoing environmental compliance issues is often difficult, especially as many companies continue to cutback on non-production personnel. As a result, many EH&S managers find themselves overloaded with multiple tasks. HMM can be a valuable resource that EH&S managers can use to more effectively and efficiently manage their company's environmental obligations, stay up-to-date with current state and federal regulatory trends, identify areas where cost-effective waste reduction measures can be implemented, and receive an objective third-party review of the company's environmental compliance level and/or liabilities. HMM can add value to the company's bottom line and help the management team to refocus resources on product quality and customer service, while staying abreast of regulatory changes and compliance issues.

Periodic Reporting

- ◆ Annual SARA Reports (312/313)
- ◆ Annual Air Emission Reports
- ◆ Monthly DMR Sampling / Reports
- ◆ POTW Pretreatment Sampling / Reports
- ◆ Hazardous Waste Biennial Reports
- ◆ Residual Waste Biennial Reports
- ◆ Chemical Analysis of Wastes
- ◆ Source Reduction Strategies
- ◆ Storage Tank Registrations / Inspections



Air Quality

- ◆ RFD Applications
- ◆ Plan Approval Applications
- ◆ Title V Permit Applications
- ◆ PSD / Permit Modifications
- ◆ System Testing / Balancing



Contingency Planning

- ◆ Environmental Compliance Audits
- ◆ SPCC Plan Preparation / Recertification
- ◆ PPC Plan Preparation / Recertification
- ◆ Environmental Emergency Response Plans
- ◆ Storm Water Pollution Prevention Plans
- ◆ Hazard Communication Plans
- ◆ Risk Management Plans
- ◆ Training

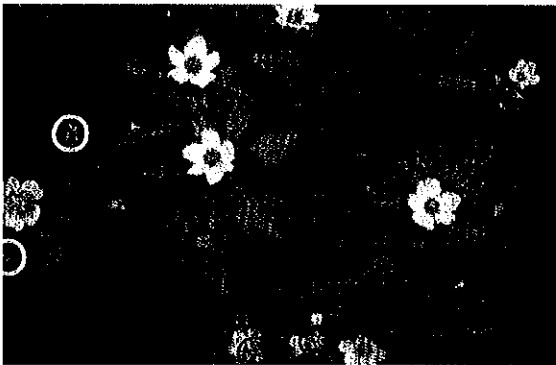
Wastewater Management

- ◆ NPDES Part I/ Part II Permit Applications
- ◆ POTW Permit Applications
- ◆ Storm Water Runoff Permit Applications
- ◆ Treatment Plant Troubleshooting
- ◆ Toxicity Reduction Evaluations



Ecological Services

Hatch Mott MacDonald provides a wide range of scientific and environmental expertise needed to successfully address complex environmental problems and to design practical, cost-effective solutions. HMM is committed to assisting its clients by guiding projects through both the regulatory process and the construction phase utilizing cost effective design and engineering while protecting and enhancing the environment. We have provided ecological services to many types of clients including public and private utilities, state and municipal authorities and agencies, commercial site developers, energy companies, residential and other private property owners, municipalities and institutions. Our scientists and field technicians have the necessary technical expertise required to design and execute ecologically-focused surveys and studies and the capability to set a strategic course of action for projects to be successfully licensed and permitted at all regulatory levels.



Regulatory Compliance

- ◆ Agency Consultation and Coordination
- ◆ Ecological Resources Policy Development
- ◆ Environmental Audits
- ◆ Environmental Compliance Inspection
- ◆ Environmental Impact Statements and Assessments
- ◆ Environmental Monitoring
- ◆ Environmental Risk Assessment
- ◆ Expert Testimony and Litigation Support
- ◆ Federal, State and Local Permitting

Environmental Technology

- ◆ Bioengineering
- ◆ Bioremediation and Phytoremediation
- ◆ Engineered Wetlands for Water Treatment
- ◆ Ecological Restoration



Ecological Resource Surveys/Studies

- ◆ Biota and Ecosystem Baseline Surveys
- ◆ Ecological Resource Management
- ◆ Ecological Risk Assessment
- ◆ Habitat Evaluation and Assessment
- ◆ Rare, Threatened and Endangered Species Assessment
- ◆ Soils, Sediments and Water Quality Investigations
- ◆ Wetland Delineation and Assessment
- ◆ Wetland Mitigation, Replication and Monitoring



Other Related Services

- ◆ Erosion and Sedimentation Control Plans
- ◆ GPS Survey
- ◆ GIS Applications
- ◆ Stormwater Management Plans
- ◆ Vegetation Management Plans
- ◆ Landscape Planting Plans

Environmental Site Assessment and Remediation

For nearly two decades, HMM has performed Phase I/Phase II environmental site assessments at hundreds of sites. They have consulted with multi-national and local buyers of property, assisting them with their due diligence efforts prior to acquisition of new companies or properties. On properties where contamination is present in excess of acceptable levels, HMM has designed and implemented remediation measures. Such remediation projects have been completed under a variety of environmental programs, including CERCLA (Superfund), RCRA Corrective Action, ISRA, Pennsylvania Act 2 and other state Brownfield programs. Projects have been completed on numerous sites that have soil and/or groundwater contaminated with chlorinated solvents, petroleum from leaking storage tanks, heavy metals, PCBs, and other organic compounds. Our design engineers are specialists in groundwater collection and treatment, waste removal and facility closure design, and our field staff is fully equipped and instrumented, and appropriately trained and medically monitored.



Environmental Site Assessments

- ◆ Phase I Site Assessments (ASTM)
- ◆ Transaction Screening Assessments
- ◆ Phase II Site Investigations
- ◆ Geophysical Surveys
- ◆ Monitoring Well Installations/Borings
- ◆ Soil, Air & Water Sampling
- ◆ Waste Sampling & Characterization
- ◆ Groundwater Flow Modeling
- ◆ Contaminant Transport Modeling
- ◆ QA/QC Plans



Remedial Design

- ◆ Feasibility Studies / Alternatives Analysis
- ◆ Physical/Chemical Treatment
- ◆ Biological Treatment
- ◆ Thermal Treatment
- ◆ Recovery Well Designs
- ◆ Soil Vapor Extraction
- ◆ Air Sparging
- ◆ Hydraulic Containment
- ◆ Closure Plans
- ◆ Pilot & Demonstration Programs
- ◆ Cost Estimating
- ◆ Risk Based Corrective Action
- ◆ Natural Remediation Compliance Plans
- ◆ Permitting

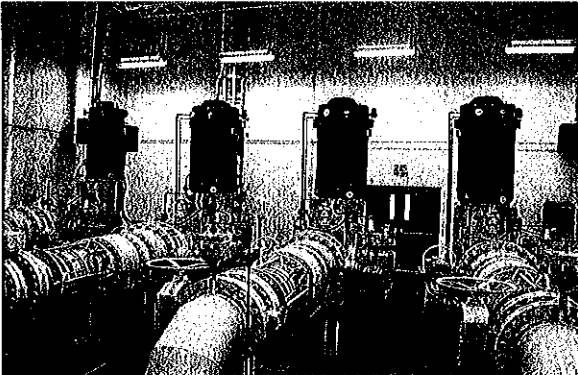


Site Remediation

- ◆ Contract Administration
- ◆ Construction Oversight Services
- ◆ System Operations & Maintenance
- ◆ Closure Reporting
- ◆ Post-Remediation Monitoring
- ◆ Expert Testimony

Water Supply Management

HMM has demonstrated a unique combination of talent and experience in meeting hydraulic and water supply engineering challenges for over 60 years. The firm has demonstrated particular strength and developed broad experience in water system planning, hydraulic analysis, design, rehabilitation and implementation. We can provide a full range of water supply management services including hydraulic analyses, planning and feasibility studies, preliminary and final designs, preparation of contract drawings and specifications, construction cost estimates, time schedule outlines, bid analyses, complete resident engineering services during project construction and development of operation and maintenance manuals, as well as start-up assistance and operator training.

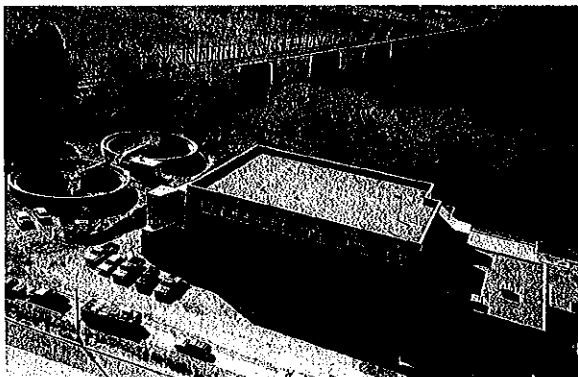


Planning

- ◆ Master Planning for Water Supply & Treatment
- ◆ Resource Management
- ◆ Resource Inventories
- ◆ Grant & Loan Application Assistance

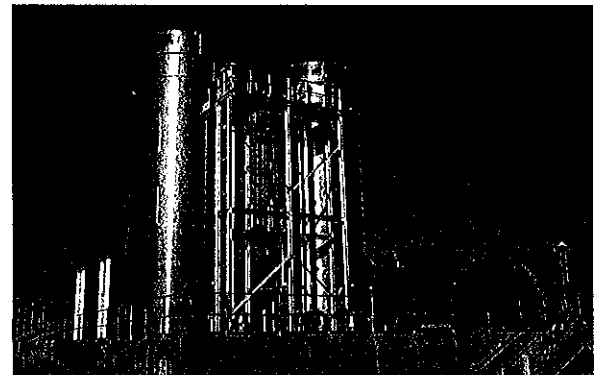
Construction Services

- ◆ Field Services
- ◆ Liaison Representation
- ◆ Construction Management
- ◆ Contract Administration



Investigative Studies

- ◆ Hydraulic Analysis
- ◆ System Pressure & Fire Flow Analysis
- ◆ Water Quality Treatability
- ◆ Rate Studies
- ◆ Feasibility Studies
- ◆ Valuations
- ◆ Expert Testimony



Design

- ◆ Water Supply
- ◆ Water Treatment
- ◆ Air Stripping
- ◆ Pumping Stations
- ◆ Transmission & Distribution Pipelines
- ◆ Storage Facilities
- ◆ Rehabilitation
- ◆ Treatment Plant Optimization & Management

Storage Tank Management

HMM provides storage tank management through a highly trained staff of professional geologists and engineers. This staff can investigate, analyze and make recommendations to our clients on tank management plans, tank upgrades and/or new tank designs. All staff are familiar with current state and USEPA rules and regulations and can expertly assist our clients in compliance with current standards. Our design team is experienced in double-walled steel or fiberglass tanks as well as tank upgrades in compliance with the regulations.

Evaluation of Existing Tank Systems

- ◆ Registration, Permitting & Release Reporting
- ◆ Integrity Testing
- ◆ Abandonment In-Place
- ◆ Removals & Disposals
- ◆ Upgrades & Modifications per Federal Regulations

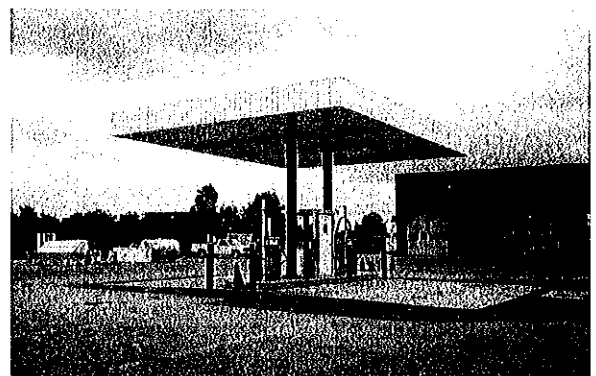


Tank Management Plans

- ◆ Evaluation of Existing Systems through Data Searches, Interview & Site Surveys
- ◆ Determination of Compliance/Non Compliance with Federal/State Regulations
- ◆ Determination of Future System Needs
- ◆ Determination of Tank Upgradability
- ◆ Scheduling Removals/Abandonment/Replacements
- ◆ Cost Estimating
- ◆ Recommendation of Sequenced Compliance

Design of New Tank Systems

- ◆ Corrosion Protection Systems
- ◆ Double-Wall Steel to 20,000 Gallons
- ◆ Fiberglass to 6,000 Gallons
- ◆ Vault or Below Ground Installations
- ◆ Above Ground Concrete
- ◆ Dispensing Units for Motor Fuel
- ◆ Multi-fuel Tank Partitioning for Gas & Diesel
- ◆ Instrumented Leak Detection Systems
- ◆ Canopies & Islands
- ◆ Specialized #6 Heating Oil Design
- ◆ Specialized Aviation Gasoline Designs
- ◆ Bid Plans & Specifications
- ◆ State & Local Construction Code Permitting
- ◆ Construction Management
- ◆ System Start-up
- ◆ Fuel & Fleet Management Systems

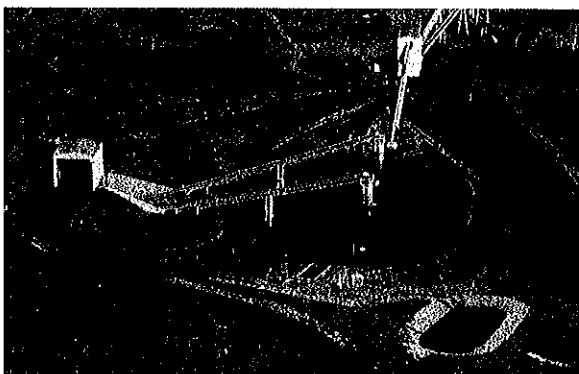


Municipal Engineering Services/ Public Works Management

As a result of the practical experience developed during more than six decades of engineering consultation, and through the utilization of the talents of staff experienced in engineering, planning and public works management, HMM can draw upon a vast depth of resources to provide consulting services for its public clients, particularly in the Public Works Area. HMM's multiple office locations, coupled with the diverse capabilities of the firm's experienced staff of certified public works managers, allow HMM to provide the Public Works Management service needed to meet the full range of the day-to-day demands of local government.

Master Planning, Design, Budget & Implementation

- ◆ Municipal Improvements
- ◆ Drainage & Flood Control Facilities
- ◆ Wastewater Collection, Pumping & Treatment Facilities
- ◆ Roadway Construction, Resurfacing & Reconstruction
- ◆ Intersection & Signalization Improvements
- ◆ Water Supply Treatment, Storage & Distribution Systems
- ◆ Beach Erosion Control, Marine & Coastal Structures & Flood Zone Management
- ◆ Parks, Golf Courses & other Recreational Facilities
- ◆ Solid Waste Management & Recycling
- ◆ Building Design Services
- ◆ Land Surveying
- ◆ Tax Map Revisions & Street Address Map Revisions
- ◆ Energy Audits



- ◆ Liaison to Financial Institutions
- ◆ Liaison to Legal Division & Expert Testimony
- ◆ Public Participation Programs



Public Works Consultation

- ◆ Underground Storage Tanks
- ◆ Sewage Collection, Pumping & Treatment Facilities
- ◆ Water Distribution, Supply, Storage, Treatment & Pumping Facilities
- ◆ Streets & Roads
- ◆ Stormwater Collection, Detention & Retention Facilities
- ◆ Solid Waste & Recycling
- ◆ Vehicles & Equipment
- ◆ Snow & Ice Removal
- ◆ Emergency - Crisis Planning
- ◆ Complaint Processing
- ◆ Construction Phase Engineering
- ◆ Survey
- ◆ GPS/GIS Plans

Advisory Consultation

- ◆ Governing Body
- ◆ Planning Board
- ◆ Board of Adjustment
- ◆ Board of Health
- ◆ Liaison to Municipal Departments, Boards & Commissions
- ◆ Liaison to County, State & Federal Agencies

Parks & Recreation

- ◆ Capital Inventory
- ◆ Park Maintenance Program
- ◆ Field Utilization Surveys



Municipal Engineering Services/ Public Works Management (cont.)

Street Management Program

- ◆ Pavement Management Programs
- ◆ Maintenance & Repair Programs
- ◆ Preparation of Street Cleaning Programs



Snow Plowing and Ice Control

- ◆ Comprehensive Snow Plowing Plans
- ◆ Ice Control Programs
- ◆ Equipment

Stormwater System Maintenance

- ◆ Cleaning Programs
- ◆ Routing Maintenance Programs
- ◆ Planning for Managing & Upgrading

Sanitary Sewer System Maintenance

- ◆ Routine Cleaning Programs
- ◆ TV Inspection
- ◆ Manpower Training

Fleet Management

- ◆ Planning that Addresses Ownership, Use, Maintenance, Repair & Replacement

Facility Management Programs

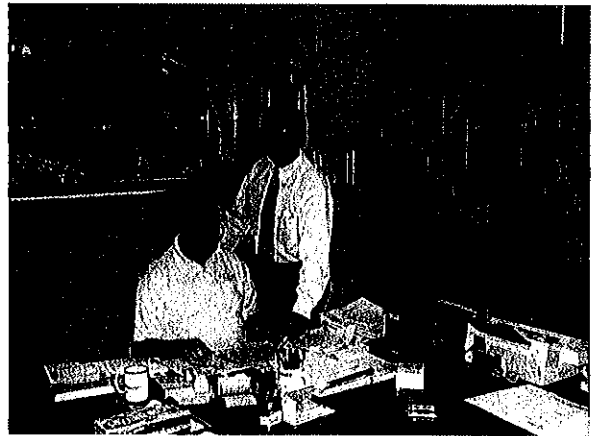
- ◆ Review Staff Capabilities Relative to Facility Maintenance, Upkeep & Cleaning

Capital Budgeting and Planning

- ◆ Review of Existing Capital Plans
- ◆ Preparation of Single or Multi-Year Capital Budgets
- ◆ Review of Financing Options

Public Works Management

- ◆ Perform Management Review of Existing Operations
- ◆ Prepare Plans for Staffing & Operational Improvements
- ◆ Budget Review & Recommendations



Pipeline Services

HMM has demonstrated experience in virtually all aspects of the natural gas transmission pipeline industry from routine operation and maintenance related matters to design and construction. The firm has successfully completed a wide variety of projects ranging from relatively small scopes of work through major multi-state construction projects. It is this understanding and our extensive resources that enable HMM to quickly and effectively respond to clients' needs, regardless of project size or scope. Our unique geographic office locations further enable us to quickly respond to the needs of the interstate natural gas pipeline industry. Our offices are located in the vicinity of many strategic pipeline hubs. HMM is unique in the industry in its ability to provide our clients with a wide variety of services including: surveying, planning, design, construction phase services and environmental compliance. As a result of our experience, we also understand the importance of close communication throughout any project undertaken.

**Project Management**

- ◆ Feasibility Studies
- ◆ Schedule Control
- ◆ Project Organization & Staffing
- ◆ Alignment & Progress Meetings
- ◆ Project Status Reports
- ◆ Scope Change Management

Pipeline Engineering

- ◆ Field Engineering
- ◆ Construction Work Space
- ◆ Route Selection & Realignment
- ◆ Horizontal Directional Drilling
- ◆ Road & Highway Crossings
- ◆ Wetland & Waterbody Crossings

Pipeline Surveying

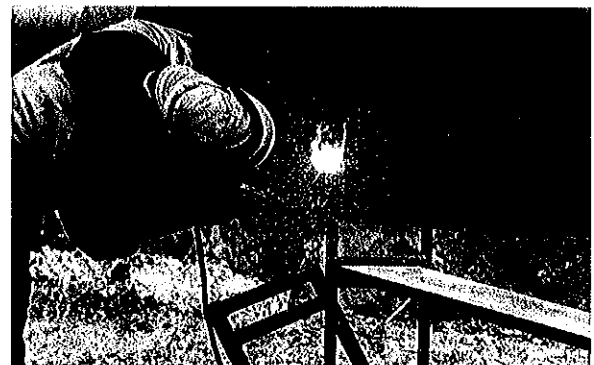
- ◆ Preliminary Survey/Alignment
- ◆ Aerial Photography & GPS
- ◆ Topographic Surveys & Profiles
- ◆ Fee Property Surveys
- ◆ Existing Conditions Surveys
- ◆ Construction Re-Stake
- ◆ Record Plan Survey

Construction Services

- ◆ Construction Management
- ◆ Construction Engineering/Survey
- ◆ Resident Observation

Environmental/Cultural Resources

- ◆ Agency Consultation & Coordination
- ◆ Field Investigations & Surveys
- ◆ Wetland Delineation
- ◆ Endangered & Threatened Species
- ◆ Cultural Resources
- ◆ Erosion & Sediment Control
- ◆ Revegetation & Maintenance
- ◆ Wetland/Water Body Construction Procedures
- ◆ Stormwater Management Plans
- ◆ SPCC & Mitigation Plans
- ◆ Air Quality Monitoring & Permitting
- ◆ Federal, State & Local Permitting
- ◆ FERC Applications & Coordination

**Pipeline Drafting**

- ◆ Alignment Sheets
- ◆ Topographic Maps/Aerial Photographs
- ◆ Permit Application Drawings
- ◆ Land & Condemnation Plats
- ◆ Graphics & Presentation Drawings
- ◆ Record Plans

Operation and Maintenance Services

- ◆ Pipeline Location & Staking
- ◆ Anomaly & Dent Location
- ◆ Exposed Pipe Remediation
- ◆ Surveying, Drafting, Design, Engineering, Environmental & Permitting

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[CCQQ – Attachment “B”]

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

Attachment "b"

PROJECT NAME Simpson CK. HW, Tipple & Portals		DATE (DAY, MONTH, YEAR) 12/07/10	FEIN 16-1006700
1. FIRM NAME Hatch Mott MacDonald LLC	2. HOME OFFICE BUSINESS ADDRESS 27 Bleeker Street Milburn, NJ 07041		3. FORMER FIRM NAME Hatch Associates Consultants, Inc. (Est. 1955) Mott MacDonald Group (Est. 1902)
4. HOME OFFICE TELEPHONE 973-379-3400	5. ESTABLISHED (YEAR) 1972	6. TYPE OWNERSHIP Individual Partnership Corporation Joint-Venture	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO YES NO
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE			
2601 Cranberry Square, Morgantown, WV 26508, 304-212-4390, Timothy M. Rice, Area Manager/ Morgantown - 44			
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM 8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS			
Richard L. Steinhart, PE, Senior Vice President Timothy M. Rice, Morgantown Office Area Manager (304)212-4390			
9. PERSONNEL BY DISCIPLINE			
— 26ADMINISTRATIVE	— 4ECOLOGISTS	— 7LANDSCAPE ARCHITECTS	— 65STRUCTURAL ENGINEERS
— 14ARCHITECTS	— 0ECONOMISTS	— 23MECHANICAL ENGINEERS	— 100SURVEYORS
— 3BIOLOGIST	— 35ELECTRICAL ENGINEERS	— 2MINING ENGINEERS	— 0TRAFFIC ENGINEERS
— 273CADD OPERATORS	— 17ENVIRONMENTALISTS	— 0PHOTOGRAMMETRISTS	— 0OTHER
— 8CHEMICAL ENGINEERS	— 26ESTIMATORS	— 5PLANNERS: URBAN/REGIONAL	
— 216CIVIL ENGINEERS	— 30GEOLOGISTS	— 24SANITARY ENGINEERS	
— 142CONSTRUCTION	— 0HISTORIANS	— 0SOILS ENGINEERS	
— INSPECTORS	— 1HYDROLOGISTS	— 0SPECIFICATION WRITERS	— 1812TOTAL PERSONNEL
— 31DESIGNERS			
— 0DRAFTSMEN			
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.			
Rich Steinhart is a WV-PE and is the "Engineer in Charge" for the Morgantown office. James Fetty is also a WV-PE in the Morgantown office. Gary Facemyer is a WV Registered Professional Engineer and is the Charleston, WV office manager. Darryl Brogan and Paul Smith are WV Registered Professional Engineers located in our Pittsburgh office are both WV-PE's and are available to provide the Morgantown office with additional technical and professional support.			
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO N/A			

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

<p>NAME AND ADDRESS: Blue Mountain Aerial Mapping 11023 Mason Dixon Highway Burton, WV 26562</p>	<p>SPECIALTY: Aerial mapping</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Triad Engineering 4980 Teays Valley Road St. Albans, WV 25177</p>	<p>SPECIALTY: Geotechnical Drilling/Surveying</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Highland Engineering 1426 Memorial Drive Oakland, MD 21550</p>	<p>SPECIALTY: Surveying</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS Pennsylvania Drilling Company 281 Route 30 Imperial, PA 15126</p>	<p>SPECIALTY: Geotechnical Drilling</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Test Boring Services, Inc. 142 Mong Road Scenery Hill, PA 15360</p>	<p>SPECIALTY: Geotechnical Drilling</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Sturm Environmental Services P.O. Box 650 Bridgeport, WV 26330-0650</p>	<p>SPECIALTY: Laboratory Analysis</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Industrial Lab Analysis, Inc. 65 - 36th Street Wheeling, WV 26003</p>	<p>SPECIALTY: Laboratory Analysis</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

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

YES Description and Number of Projects: Several members of the WV office have a combined 100 years of AML design experience. They also have completed over 300 AML design projects.

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: Our experienced staff routinely provides expertise to our mining and municipal projects. We have and continue to provide revegetation and reforestation (ARRI) design on AML, permitting, and municipal projects in West Virginia and surrounding states. HMM also has multiple staff with strong wetland delineation backgrounds and skills.

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: Our current projects include the study of hundreds of streams and drainage structures over a 1,400 square mile area in southwestern PA and north central WV. This work includes sampling, flow monitoring, modeling, mitigation, remediation, hydrologic and hydraulic analyses, and mapping

NO

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

YES Description and Number of Projects:

NO - We subcontract the aerial photography, however in-house we provide GPS, surveying and development of the mapping as needed.

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

YES Description and Number of Projects:

We have completed numerous waterline design projects and our in-house staff has more than 50 years of combined experience with aquifer degradation. James Fety, PE, located in our Morgantown office, has over 20 years of waterline design and project management experience. Jim served as the Fairmont City Engineer for over 20 years. Gary Facemyer, Charleston Office Manager, has over 30 years of waterline design and management experience

NO

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

YES Description and Number of Projects: Our staff has personnel experience of over 50 AML projects related to AMD Design and Evaluation. Our staff has performed watershed analysis, doser design, passive system design, and chemical treatment facility planning.

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.) Rice, Timothy M. Project Engineer, Project Manager	YEARS OF AML DESIGN EXPERIENCE: 23	YEARS OF AML RELATED DESIGN EXPERIENCE: 32	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 27
	YEARS OF EXPERIENCE		

Brief Explanation of Responsibilities

Mr. Rice presently serves as Area Manager for the Hatch Mott MacDonald Morgantown, WV office.

Mr. Rice is experienced in project management, coordination and supervision for permitting, design, drafting, surveying and drilling projects. His expertise is in reclamation design; mining permits; design of acid mine drainage abatement plans; water resources studies; pre/post mining surveys; hydraulic and hydrological analysis; pre-blast surveys; slope stability analysis; geotechnical design; Phase I environmental audits; storm water management analysis and design; civil site designs; and commercial and residential inspections.

Mr. Rice has also received Levels I – IV of Natural Stream Channel Design Certification. He coordinated mitigation, remediation, and restoration projects for several clients in close proximity to the Morgantown office.

EDUCATION (Degree, Year, Specialization)
 B.S., 1982 Civil Engineering
 Level I, II, III, and IV Natural Stream Design, 2004

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)
 EIT, West Virginia

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.) Law, Jeffrey L. Project Engineer/Project Manager	YEARS OF AML DESIGN EXPERIENCE: 19	YEARS OF AML RELATED DESIGN EXPERIENCE: 27	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 21
	YEARS OF EXPERIENCE		

Brief Explanation of Responsibilities

Mr. Law is a Project Engineer/Manager for Hatch Mott MacDonald. His experience includes design of AML reclamation plans, permit for 1,000-acre deep mine, barge loading facility, highway entrance permits, mine subsidence evaluations, impoundments, hydrology studies for refuse sites and public water supplies, and has designed storm water management plans for residential and commercial projects. His expertise is in mine subsidence remediation and design; mine facility layout and design; reclamation design; mining permits; design of acid mine drainage abatement plans; pre/post mining surveys; hydraulic and hydrological analysis; pre-blast surveys; slope stability analysis; geotechnical design; storm water management analysis and design; civil site designs; and commercial and residential inspections. Mr. Law has also conducted floodplain evaluations and construction inspection of commercial properties. Mr. Law has experience in project management, coordination and supervision for construction and design of various mining related projects.

EDUCATION (Degree, Year, Specialization)
 B.S., 1983 Mining Engineering
 A.A., 1980 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)

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Fetty, James W. Project Engineer		YEARS OF AML DESIGN EXPERIENCE: 2	YEARS OF AML RELATED DESIGN EXPERIENCE: 22
		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	21

Brief Explanation of Responsibilities
 Mr. Fetty's background is in the Municipal Engineering field. He was the City Engineer for the City of Fairmont, West Virginia for 21 years. He has been a Project Manager for numerous water distribution, storm sewer and sanitary sewer system projects. He has experience in the design, preparation of plans and specifications and construction monitoring for water distribution, storm drainage and sanitary sewer collection system projects. Mr. Fetty is also an experienced Project Manager for multiple AML projects including Heather Run #4, Whispering Woods and Rupert to Rainelle recently.

EDUCATION (Degree, Year, Specialization)
 B.S., 1982 Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 National Society of Civil Engineers
 Water Environment Federation

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	
Rogers, Richard M. Project Engineer		YEARS OF AML DESIGN EXPERIENCE: 7	YEARS OF AML RELATED DESIGN EXPERIENCE: 11
		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	0

Brief Explanation of Responsibilities
 Mr. Rogers has experience in project management, coordination and supervision for construction and design of various mining and geotechnical related projects, including several AML projects. His experience includes management of one hundred plus geotechnical projects, including transportation, commercial development, public schools and a variety of public and private clients. His responsibilities have included schedule and cost control and overall submittal quality. He has managed field drilling activities, field classification of soil, rock, field and laboratory safety procedures, a laboratory testing program and geotechnical evaluations. Engineering evaluations include foundation recommendations, settlement analysis, slope stability analysis, earth pressure coefficients and report preparation. In addition, Mr. Rogers has served as Project Manager for several construction testing projects.

EDUCATION (Degree, Year, Specialization)
 B.S., 1998, Chemical Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 EIT, West Virginia

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:
Peter Vaughan Senior Project Manager	0	32	0

Brief Explanation of Responsibilities
 Mr. Vaughan is a Senior Project Manager at Hatch Mott MacDonald (HMM). Mr. Vaughan's work has been primarily in the mining area. He has experience in mining design, procurement, engineering, execution, start-up, post audit and compliance, permitting, and mitigation work for many coal mining and energy clients. He has been the Project Manager for several major drainage study, stream monitoring, regulatory compliance, stream mitigation, stream augmentation, and restoration projects. He also performed studies to determine drainage characteristics and develop a flow model for a reclaimed coal refuse area.

EDUCATION (Degree, Year, Specialization)
 BS Mining Engineer, 1979

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 Board Member and Officer SME- Society for Mining, Metallurgy & Exploration, Inc.
 Pittsburgh Geological Society

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Chuck Yurchick Project Geologist	7	32	0

Brief Explanation of Responsibilities
 Mr. Yurchick is experienced in project management, coordination and supervision of coal exploration projects, coal and non-coal surface and deep mine permitting activities, hydrologic studies pertaining to surface and under-ground mine activities, geologic and geo-technical drilling projects, natural and man made slope failure and mine subsidence investigations, site development geo-technical evaluations, deep mining in-seam geologic disruption evaluations, bore hole grouting, under-ground mine grouting plans and drilling, management of field operations for exploration and geo-technical projects and property damage evaluations due to geologic hazards.

EDUCATION (Degree, Year, Specialization)
 BS, Geo Sciences, The Pennsylvania State University, 1973

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 Society for Mining, Metallurgy and Exploration, SME of the AIME,
 Founding Registered Member of the Society for Mining, Metallurgy and Exploration,
 American Institute of Professional Geologists

REGISTRATION (Type, Year, State)
 Professional Geologist, 1995, PA
 Certified Professional Geologist- AIPG, CPG-5117

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	
Gary Facemyer, P.E., PS	YEARS OF AML DESIGN EXPERIENCE: 20	YEARS OF AML RELATED DESIGN EXPERIENCE: 32 YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 32

Brief Explanation of Responsibilities
 Mr. Facemyer has been responsible for planning, design, permitting, construction management and construction of numerous abandoned mine land reclamation projects over a 20 year period. Projects included mine portal closures, high wall reduction or elimination, refuse piles, burning refuse, stream restoration, drainage correction, acid mine drainage, water feasibility studies and water system designs.
 This work also included Special Reclamation (bond forfeiture) assessment, water testing, and AMD treatment.

EDUCATION (Degree, Year, Specialization)
B. S. Civil Engineering WV Institute of Technology 1975

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 American Society of Civil Engineers - Past President WV
 American Council of Engineering Companies/WV
 WV Society of Professional Surveyors

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	REGISTRATION (Type, Year, State)	
Brian Moore, PE Project Engineer	YEARS OF AML DESIGN EXPERIENCE: 2	Professional Engineer, WV OH PA MD VA KY Professional Surveyor, WV
	YEARS OF AML RELATED DESIGN EXPERIENCE: 8	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 8

Brief Explanation of Responsibilities
 Mr. Moore has served as a Project Engineer and Task Manager for various water and wastewater conveyance projects. He has an extensive background in the development and quality control of hydrologic and hydraulic dynamic computer models using various computer programs. He has also generated base maps and plan-profile sheets for various infrastructure projects using automated computer methodologies. Mr. Moore also has site design experience including drainage and parking facilities for several different facilities.

EDUCATION (Degree, Year, Specialization)
B.S., Civil/Environmental Engineering, 1998, Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 Professional Engineer, 2003, Ohio

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:
Clayton K. Roderick Geologist	3	11	0

Brief Explanation of Responsibilities

Mr. Roderick is experienced in coordination and supervision of coal exploration projects, coal and non-coal surface and deep mine permitting activities, hydrologic studies pertaining to surface and under-ground mine activities, geologic and geo-technical drilling projects, management of field operations for exploration and geo-technical projects and property damage evaluations due to geologic hazards.

EDUCATION (Degree, Year, Specialization)

Earth Sciences, 1997, California University of Pennsylvania

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
John Green Surveyor		32	0

Brief Explanation of Responsibilities

Mr. Green is a Registered Professional Surveyor with over 30 years of experience in the engineering industry in surveying or survey related capacities and as an engineering design technician. He is expertly qualified in most conventional types of surveying with some experience in newer non-conventional types such as GPS surveying. He is also expertly qualified in the right-of-way plan process.

EDUCATION (Degree, Year, Specialization)

Civil Engineering Technology, 1976

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

American Congress on Surveying & Mapping
West Virginia Society of Professional Surveyors
National Society of Professional Surveyors
CGIS/LIS Association

Professional Surveyor, 1991, WV - 901

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:
Jason Reese CADD Designer	7	11	4

Brief Explanation of Responsibilities

Mr. Reese serves as CADD Designer at Hatch Mott MacDonald. His past experience includes AML design projects for the State of West Virginia. He is also knowledgeable with various forms of mine permitting in West Virginia and Pennsylvania. Mr. Reese is familiar with basic surveying techniques, storm water design, hydraulic and hydrologic computations, erosion and sediment control plans, and 3D Modeling using ACADD.

EDUCATION (Degree, Year, Specialization)
CADD, 1998, Monongalia County Vocational Center

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Dave Yanero Designer	9	37	3

Brief Explanation of Responsibilities

Mr. Yanero serves as Designer at Hatch Mott MacDonald. His past experience includes AML design projects for the states of West Virginia, Maryland and Ohio, as well as all aspects of mine permits applications and design for West Virginia. He is also knowledgeable with storm water applications and design related to commercial and residential development, subsidence investigation and pre-blast surveys. Mr. Yanero is also familiar with design, operation and maintenance of AMD facilities, West Virginia Division of Highways entrance permits, Department of Health and Human services permits for sanitation and waterline feasibility studies. Mr. Yanero's expertise is in surveying and AutoCAD 3D.

EDUCATION (Degree, Year, Specialization)
AS, 1974, Engineering Technology, Fairmont State College

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 REGISTRATION (Type, Year, State)

<p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</p>			
<p>NAME & TITLE (Last, First, Middle Int.)</p> <p>Chambers, Ricardo A. Engineer</p>	<p>YEARS OF AML DESIGN EXPERIENCE:</p> <p>1</p>	<p>YEARS OF AML RELATED DESIGN EXPERIENCE: 3</p>	<p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0</p>
<p>Brief Explanation of Responsibilities</p> <p>Mr. Chambers joined Hatch Mott MacDonald in July of 2006 and is now working as an Engineer in the Morgantown office. His experience includes extensive fieldwork in environmental projects, data analysis and report compliances, groundwater monitoring, and hydrologic flow studies. He is proficient in operating numerous pieces of equipment including, but not limited to: a Trimble GeoXT GPS, a Marsh-McBirney Model T2000 Flow Meter and various other groundwater and surface water sampling instrumentation.</p>			
<p>EDUCATION (Degree, Year, Specialization)</p> <p>MS, 2006, Environmental Engineering BS, 2004, Civil Engineering AS, 1999, Mathematical Science</p> <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>American Society of Civil Engineers</p>			
<p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</p>			
<p>NAME & TITLE (Last, First, Middle Int.)</p> <p>Cline, Jeremiah C. Engineer</p>	<p>YEARS OF AML DESIGN EXPERIENCE:</p> <p>2</p>	<p>YEARS OF AML RELATED DESIGN EXPERIENCE: 4</p>	<p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0</p>
<p>Brief Explanation of Responsibilities</p> <p>Mr. Cline is experienced in ASTM Standard materials testing, construction and environmental inspection services, monitoring the many different physical parameters of streams, and GPS surveying. He is capable of making keen observations with respect to the effects of longwall mining to surface features above ground. At this time he is creating estimates for several large scale stream monitoring projects. Mr. Cline is also managing equipment and people in a dynamic schedule that he created to track all monitoring tasks for each of nearly 30 persons at 5 deep mine sites, on a daily basis. He has had several classes in natural stream design and stream restoration that includes Rosgen Level One – Fluvial Geomorphology for Engineers and other classes hosted by Canaan Valley Institute.</p>			
<p>EDUCATION (Degree, Year, Specialization)</p> <p>BS, 2003, Civil Engineering Rosgen Level 1 – Fluvial Geomorphology for Engineers Rosgen Level 2 – River Morphology and Applications Rosgen Level 3 – River Assessment and Monitoring</p> <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>ASCE – WV Northern Branch (President)</p>			
		<p>REGISTRATION (Type, Year, State)</p> <p>EIT, West Virginia</p>	
		<p>REGISTRATION (Type, Year, State)</p> <p>EIT, West Virginia</p>	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
McDermott, David Geologist	2	6	0

Brief Explanation of Responsibilities

Mr. McDermott is a Geologist with a proven track record of success in collecting, analyzing and graphically representing data. He is proficient in operating numerous pieces of equipment including, but not limited to: a Trimble GeoXT GPS, a Marsh-McBirney Model T2000 Flow Meter and various other groundwater and surface water sampling instrumentation.

EDUCATION (Degree, Year, Specialization)
BS, 2005, Geology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Matthew Lauffer Wetland Scientist/Ecologist	1	6	0

Brief Explanation of Responsibilities

Mr. Lauffer is a field biologist involved in wetland identification and delineation, and ecological surveys. He has performed wetland delineations and/or ecological investigations throughout the Midwest and Mid-Atlantic and has field experience in the identification of aquatic plants and terrestrial wildlife.

EDUCATION (Degree, Year, Specialization)
MS, Ecology, 2008
BS, Natural Biology, 2002
BS, Environmental Science, 2002

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
Society of Wetland Scientist (SWS)

REGISTRATION (Type, Year, State)

FIELD EQUIPMENT

Sampling Equipment (water/solid)

- Ponar Dredge (solids underwater)
- Automatic Water Samplers
- Hand Augers (soil)
- EnCoreTM Samplers
- Disposable Field Filters, 0.45 micron
- Bailers (disposable Polyethylene, PVC, Teflon)
- Groundwater Pumps

Safety Equipment

- O2, LEL, H2S, CO Meter
- Hazmat Kit/Draeger Tubes
- Tripod Confined Space Entry System
- Personal Protective Equipment (PPE)

General Equipment

- Air Compressor (electric powered, 110V)
- Digital Camera
- Electric 110V-220V Generator (gas powered)
- Jar Test Apparatus
- Settling Column
- Field Kits (HACH)
- Metering Pumps (0-500 ml/min)

Measuring Instruments

- Marsh McBirney T2000 Flow Meter (open channel)
- Fluorometer (water flow open channel)
- Polysonics Flow Meter (closed pipe)
- Water Level Recorder
- Water Level Indicator (wells, tanks)
- Interface Layer Probe (wells, tanks)
- Recording Rain Gauge
- pH/Conductivity/Temp Meter
- pH/Temp Meter
- ORP Meter
- Specific Conductivity/Temp Meter
- Photoionization Detector

Surveying Equipment

- Portable Rangefinder
- Brunton Compass
- Total Station with Data Collector
- GPS Submeter Unit
- GPS RTK (Portable Base + Rover)
- GPS RTK (Complete Unit)**

General Office

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- Microsoft Project
- Microsoft Outlook
- Adobe CS2 Suite

Design and Modeling

- AutoCAD 2007
- AutoDesk Land Desktop 2007 (civil/site)
- Autodesk Civil 3D 2007 (civil/site)
- MicroStation V8 2004
- FlowMaster 2005 (flow design)
- InfoWorks CS (hydraulic modeling)
- XP-SWMM (hydraulic modeling)
- InfoSewer (hydraulic analysis)
- HEC-RAS (open channel modeling)
- PENTOXSD for Windows (effluent limits)
- WQM 7.0 (BOD/NH3 wasteload allocation)

GIS and Database

- ArcGIS (GIS mapping and database mgmt.)
- SQLServer (database management)
- Oracle (database management)
- Microsoft Access (simple databases)

OFFICE EQUIPMENT

- Oce TDS 450 B/W Plotter (high speed, wide format)
- Oce TCS 500 Color Plotter (high speed, wide format)
- Oce Wide Format Color Scanner

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 DESIGN SERVICES COST	PERCENT COMPLETE
Dotson Tipple Monongalia County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Mine Closures, Highwall Reduction, Regrade/Revegetation	\$120,000	5%
Barker Portals & Strip Barbour County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Mine Closures, Highwall Reduction, Regrade/Revegetation	\$149,000	60%
Heather Run No. 2 Preston County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Mine Closures, Highwall Reduction, Channel Design	\$102,000	90%
Pendleton Creek Strip Tucker County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Natural Stream Channel Design, ARRI Reforestation Plan	\$153,000	98%
Stream Mitigation/ Restoration Project Southwestern, PA	Confidential Coal Client	Stream Mitigation and Restoration of approximately 50,000 lineal feet of stream affected by longwall mining.	\$4,000,000	20%
Stream Monitoring Southwestern, PA	Confidential Coal Client	Stream monitoring of approximately 25,000 lineal feet of stream affected by longwall mining.	\$11,000,000	30%
Rupert to Rainelle Feasibility Study Greenbrier County, WV	West Virginia Division of Environmental Protection	Water feasibility study	\$30,960	45%
Whispering Woods Feasibility Study Monongalia County, WV	West Virginia Division of Environmental Protection	Water feasibility study	\$22,375	45%
Pallotta Subsidence Marion County, WV	West Virginia Division of Environmental Protection	Subsidence Stabilization plan	\$10,000	95%
Bethlehem (Toothman) Subsidence Harrison County, WV	West Virginia Division of Environmental Protection	Subsidence stabilization plan	\$10,058	50%

TOTAL NUMBER OF PROJECTS: 10

TOTAL ESTIMATED COSTS: \$15,597,393

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A 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
East Side Access, New York, NY	Program Management. Design review and expert advise on the tunnel design and construction including ventilation systems and other fire/life safety issues. LIRR service into Grand Central Terminal. The new line will utilize the partially completed 63rd Street tunnel and construct approximately 5,000 feet of new tunnel into Grand Central Terminal.	Long Island Rail Road 469 7th Ave., 11th Floor New York, New York 10018	2009	\$4,300,000	\$17,000
Market Street Elevated Reconstruction Project, Philadelphia, PA	The aerial structure on the west side of SEPTA's Blue Line is being rebuilt where the at-grade track begins. The project spans over two miles and will be accomplished while SEPTA continues to operate service on the line.	Southeastern Pennsylvania Transportation Authority (SEPTA) 1234 Market Street, 11th Floor Philadelphia, Pennsylvania 19107	2008	\$200,000 (fee)	\$200
Dulles Airport People Mover Tunnels, Virginia/Washington DC	Design of the people mover, baggage and tug tunnel, including mechanical and electrical systems, ventilation systems and fire/life safety for all tunnels on the project. Involves 50,000 ft of tunnels ranging from 18-ft diameter to 40-ft diameter constructed by NATM and TBM, running beneath the airport operating area.	Metropolitan Washington Airports Authority 1 Aviation Circle Washington, D.C. 20001- 6000	2007	\$900,000	25,800

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)
Stream Mitigation/Restoration Project Southwestern, PA Stream mitigation and restoration of approximately 21,000 lineal feet of stream affected by longwall mining.	Confidential Coal Client	\$5,000,000	2007	Yes
Stream Monitoring Southwestern, PA Stream monitoring of approximately 13,000 lineal feet of stream affected by longwall mining.	Confidential Coal Client	\$4,600,000	2007	N/A
Pond Restoration and Sealing Project Mannington, WV Restoration and liner installation on pond affected by longwall mining.	Confidential Coal Client	\$30,730	2007	Yes
Program Management Services Providing overall program management of the water distribution system including planning, engineering design and engineering design management services, Master Plan and Operations review and update in support of DCWASA's on-going capital improvement program in excess of \$500m. Washington DC	District of Columbia Water & Sewer 5000 Overlook Avenue, SW, 5 th Floor Washington DC 20032-5397	\$9,500,000	2006	N/A
Crow's Nest Wash Plant Hatch Mott MacDonald (HMM) was retained by the client to develop a permit for the re-processing of coal waste products at a site in Westmoreland County, Pennsylvania. The site was part of an abandoned surface mine and coal waste pile.	Donald F. Dargie Palmer Management Group 13 Elm Street, Suite 300 Cohasset, MA 02025	\$300,000	2006	Yes
Tampa Bay Seawater Desalination Facility Modifications Serving as the Engineer of Record for the project. Responsible for structural, architectural, electrical, mechanical and site related design and review of process design for the planned modifications. Also providing construction engineering services Apollonia Beach, FL	American Water Pridesa, LLC 13041 Wyandotte Road Gobsonton, FL 33534	\$24,000,000	2007	Yes
Lost Creek Flood Study Project involved performing a FEMA flood study to revise the floodplain boundaries along Lost Creek. Services included creation of a hydraulic model based on new survey data and completion of all necessary FEMA documentation to support the floodplain revision Lost Creek, WV	Harrison County Planning Commission 301 West Main Street Clarksburg, WV 26301	\$60,000 (fee)	2005	No
Harrison County Trail (McWhorter to Clarksburg) Preparation of design plans, specifications, and bid documents for the conversion of an abandoned 14-mile CSX Railroad grade to a hiking/biking trail. Services included stormwater drainage design; trail surface design; wetland delineation; and bridge decking/rehabilitation. Harrison County, WV	Harrison County Planning Commission 301 West Main Street Clarksburg, WV 26301	\$655,000	2006	Yes


17. C LETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIR WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
<p>Storm Drainage & Flood Control Improvements Storm sewers, stream improvements, an earth dike & a pump station and installation of streamflow and rainfall gauging station equipment on the East and West Branches of the Rahway River. Services also included: Field Surveys, Wetlands Assessment, Hydrologic / Hydraulic Investigations, Cost Estimates, Cost Benefit Analysis, Flood Warning System, Flood Preparedness Plan. Essex County, NJ</p>	<p>Millburn Township 375 Millburn Avenue Millburn, NJ 07041</p>	<p>\$2,000</p>	<p>On-going</p>	<p>Yes</p>
<p>Norfolk Southern Heartland Corridor Project, Various Locations Inspection and evaluation of clearances, condition, and geotechnical characteristics for 30 railroad tunnels. Laser car measurements, geotechnical borings, liner samples, and visual inspections were used to establish the existing baseline conditions and to evaluate the potential for tunnel modifications to provide additional clearances.</p>	<p>Norfolk Southern James N. Carter 404.529.1408</p>	<p>\$180,000,000</p>	<p>2005</p>	<p>N/A</p>
<p>Emergency Services Contract for Route 70 Bridge Over Friendship Creek HMM provided emergency design and construction consultation services for the replacement of a collapsed bridge on NJ Rt. 70 due to scour. Developed diversionary road alignment and profile and foundation design for a 130' temporary Acrow Bridge maintaining all lanes of traffic, which was opened to traffic in five days after the collapse. Ultra fast-tracked the design and developed detailed design sketches in advance of full design drawings for use by contractor and fabricators in accordance with the NJDOT Procedures Manual, NJDOT Roadway & Bridge Manuals and AASHTO Standard Specifications for the permanent replacement structure.</p>	<p>New Jersey DOT 1035 Parkway Avenue Trenton, NJ Brian Strizki 609.530.6363</p>	<p>\$3,000,000</p>	<p>2004</p>	<p>Yes</p>

18. DELETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS RESPONSIBLE) 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
Columbus Crossover Taxiway, Port Columbus International Airport, Columbus, OH: Preliminary structural design engineering for the taxiway bridge(s) including an investigation of bridge types, structural systems, de-icing systems, costing and development of structural design considerations for final design.	Columbus Airport Authority 4600 International Gateway Columbus, OH 43219	\$30.87 M (Construction)	2006	Yes	RWA Associates
Westport Railroad Station, Westport, CT As part of an ADA compliance upgrade, a pedestrian tunnel had to be constructed under four live Metro-North Railroad tracks, which also carry the East Coast Main Line service between Boston and New York. HMM completed a feasibility study and subsequently designed and provided on site supervision for the construction of a 75 ft long jacked tunnel.	Connecticut Department of Transportation 2800 Berlin Turnpike, P.O. Box 317546 Newington, CT 06131-7546	\$2.5 M (Construction)	2003	Yes	TAMS Consultants
Easterly Advanced Facilities Plan, Cleveland, OH QA/QC of geotechnical data collection and reporting, feasibility and selection of tunnel and shaft excavation and lining systems. 30% design of tunnel linings and construction cost estimates for all tunnel construction contracts. This project involved 16-mi of CSO tunnels, from 20 to 27-ft in finished diameter and as deep as 200 feet traversing primarily through Chagrin Shale.	Northeast Ohio Regional Sewer District 3826 Euclid Ave. Cleveland, OH 44115-2504	\$166,000 Fee	2003	Yes	Haley & Aldrich, Inc.

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.
 Hatch Mott MacDonald's talented staff and years of experience in meeting deadlines and delivering a quality product has made us a leader in mining/mining related field. ENR's April 2009 Top 500 Design Firm List has Hatch Mott MacDonald (HMM) listed as 51, up from 59 in 2008 (and 63 in 2007). Additionally our current staff has over 100 years of AML experience in six different states and gives us the knowledge and understanding of project management and cost control to complete this project on time and within budget. We recently expanded with the opening of our Charleston, WV office to better serve WVDEP-AML and southern West Virginia.

20. The foregoing is a statement of facts.

 Signature: _____ Title: Area Manager
 Printed Name: Timothy M. Rice
 Date: December 7, 2010

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[RPEM – Attachment “C”]

Location
Barbour County, WV

Client
West Virginia Department
of Environmental
Protection

Services

- Surveying
- Geotechnical Investigations
- Mapping
- Reclamation Plan
- Construction Plans and Details
- Construction Specifications
- Engineering Cost Estimate

On-going

Project Description

Hatch Mott MacDonald (HMM) was retained by the client to provide engineering design documents for the reclamation of an abandoned surface mine in Barbour County, WV. Pre-1977 surface and deep mining activities have created an environmental impact on this site that is situated along the Tygart River. Approximately 6,000 lineal feet of highwall ranging in height from 30-45 feet was left un-reclaimed. Four deep mine portals were left un-sealed. Scattered coal refuse and mine spoil are contributing to the production of acid mine drainage (AMD) on this site. This AMD is discharging directly into the Tygart River.

HMM's work included all design documents necessary for construction and the project specific Corps of Engineers permits. The abandoned mine entries were sealed utilizing dry mine seals, wet mine seals, and bat gates. Drainage channels were designed to safely carry surface water as well as mine discharges utilizing limestone drains and channels as a form of treatment. A wetland is being designed to intercept and treat some of the AMD being generated on-site. All disturbed areas will be soil covered and revegetated.



Location

Preston County, WV

ClientWest Virginia Department
of Environmental
Protection**Services**

- Surveying
- Geotechnical Investigations
- Mapping
- Reclamation Plan
- Construction Plans and Details
- Construction Specifications
- Engineering Cost Estimate

Project Description

Hatch Mott MacDonald (HMM) was retained by the client to provide engineering design documents for the reclamation of an abandoned surface mine in Preston County, WV. Pre-1977 surface and deep mining activities are creating an environmental impact on the headwaters of Heather Run. Sixteen (16) deep mine entries were left unsealed. Of these entries, only 6 are partially collapsed. Some entries are situated such that surface water drainage is allowed to enter the abandoned mine. Others are discharging acid mine drainage (AMD) at an approximate rate of 200 gpm. This AMD discharge is of poor quality, pH 2.6 and Fe > 10 mg/L. Also, approximately 2,000 linear feet of highwall was left abandoned; coal refuse and spoil was left un-covered, and scattered mine debris was left on the site. This site is generating AMD and discharging directly into Heather Run, a tributary of the Cheat River.

HMM's work included all design documents necessary for construction and the project specific Corps of Engineers permits. The abandoned mine entries were sealed utilizing dry mine seals, wet mine seals, and bat gates. The area was regraded to eliminate surface irregularities and provide positive drainage. Drainage channels were designed to safely carry surface water as well as mine discharges utilizing limestone drains and channels as a form of alkaline treatment. All disturbed areas will be soil covered and revegetated.



Location

Tucker County, Thomas,
WV

Client

West Virginia Department
of Environmental
Protection

Services

- Surveying
- Geotechnical
Investigations
- Mapping
- Reclamation Plan
- Natural Stream Design
- ARRI Reforestation
- Construction Plans and
Details
- Construction
Specifications
- Engineering Cost
Estimate

Project Description

Hatch Mott MacDonald (HMM) was retained by the client to provide engineering design documents for the reclamation of an abandoned surface mine in Tucker County, WV. Pre-law mining activities intercepted Pendleton Creek and has forced the stream flow to be directed into an abandoned deep mine complex that lies under the community of Thomas, WV. The introduction of this flow is causing deterioration of the coal pillars that support the mine roof and is also generating AMD on the waters of the Blackwater River

HMM's work included all design documents necessary for construction and the project specific Corps of Engineers permits. Portions of the highwall were reclaimed to provide positive drainage of surface waters. Two separate streams were designed utilizing natural stream design techniques and bentonite liners to control losses and maintain stability. All disturbed areas were revegetated using ARRI reforestation procedures and native species.



Location

Harrison County, WV

Client

 Harrison County
Commission, WV

Project Type

Flood Modeling/Mapping

Services

 Site Characterization
Hydrologic/Hydraulic
Evaluations

Duration

July 2004 - March 2005

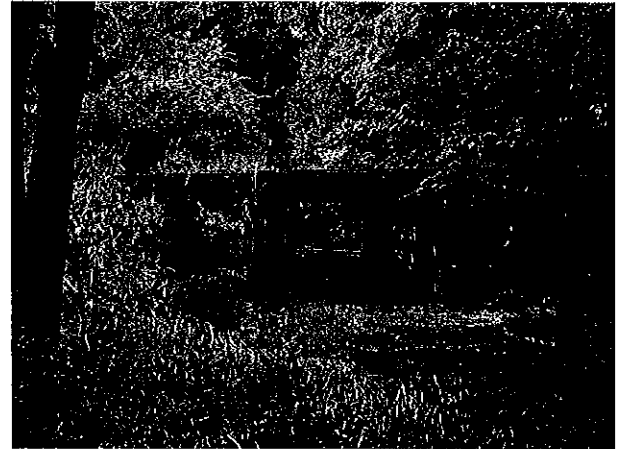
Project Description

The Lost Creek Floodplain Investigation provided the Harrison County Commission with detailed floodplain information for Lost Creek between the Town of Lost Creek corporate limit and Lost Creek's downstream confluence with the West Fork River. Prior to this investigation, Lost Creek was characterized as approximate Zone A on the Harrison County, WV (Unincorporated Areas) Flood Insurance Study (FIS) and Flood Insurance Rate Maps (FIRMs). A final report was prepared for the Harrison County Planning Commission with all necessary documentation and analysis to support a revision to the Flood Insurance Rate Map for the Town of Lost Creek, WV.

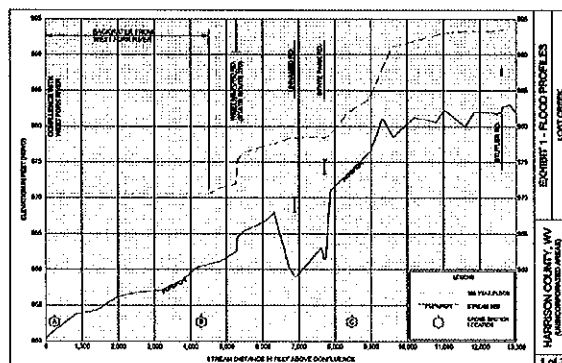
HMM Role

Site Characterization - HMM prepared the detailed flood hazard mapping for Lost Creek by conducting field investigations and performing detailed hydraulic evaluations within the project study area. A combination of traditional land surveying and GPS surveying were used to identify cross sections of Lost Creek at set intervals. HMM combined the new cross section survey data with USGS DEM data to create a new Triangular Irregular Network (TIN) in ArcView. Cross sections were automatically extracted from the GIS TIN using HEC-GeoRAS and imported into HEC-RAS for performing the hydrologic and hydraulic evaluations.

Hydrologic/Hydraulic Evaluations - HMM used HEC-RAS to establish the peak flow for the 100-year storm using current US Geological Survey (USGS) regression equations for rural watersheds. The resulting floodplain and floodway boundaries for the 100-year storm event were mapped on digital topographic maps overlaid with color aerial photographs. A water surface profile was established for the 100-year storm for the establishment of Base Flow Elevations along Lost Creek.


Project Highlights

- ◆ Development of hydrologic/hydraulic models
- ◆ Site characterization and delineation of Waterway flood elevation
- ◆ Deterioration of floodway boundaries and development of Flood Insurance Rate Map updates.



Harrison County Trail – McWhorter to Clarksburg Trail

Location

Harrison County, WV

Client

Harrison County

Services

- Stormwater Drainage Design
- Trail Head/Parking Layout
- Precast Arch Culvert Design
- Bridge Rehabilitation
- Construction Contract Administration
- Construction Inspection

Reference

Terry Schulte, Executive
Director
304-624-8690

Project Description

Hatch Mott MacDonald was retained by the Harrison County Commissioners to prepare design plans, specifications, and bid documents for the conversion of the abandoned 14-mile CSX Railroad grade to a hiking/biking trail.

Work included digitizing existing railroad right-of-way maps into AutoCAD format; evaluation of existing drainage structures; design of drainage rehabilitation; design of new drainage structures; trail surface design; preparation of clearing, grubbing, and tree pruning specifications; design of trail entrances, gates and fencing; design of access barriers (to prevent unauthorized motor vehicles from gaining entry to the trail); wetland delineation; and bridge decking/rehabilitation.

HMM will also perform the construction inspection and construction management of the project. This work will include full-time inspection; evaluation of contractor performance and work product, and approval of contractor invoices. The project was completed in the Fall of 2003.



STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

Authorized Signature: *[Signature]* Date: 12-3-10

State of West Virginia

County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this 3 day of December, 2010.

My Commission expires August 3, 2017.

AFFIX SEAL HERE

NOTARY PUBLIC *[Signature]*

