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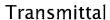
EUTICPACING DIVISION STATE OF WV

Expression of Interest for

Professional Engineering Design Services and Construction Monitoring Services for the Shinnston (Shinns Run) Portals and AMD Project

RFQ # DEP15235





Date: 12/07/10



To:

Mr. Chuck Bowman, WVDEP

			2019	Wash	ington S	t. E				Job #	DEP1	5235		
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If enclosures are not as noted, please notify us at once



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

Request for

BEQ NUMBER DEP15235

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ADDRESS CORRESPONDENCE TO ATTENTION OF

CHUCK BOWMAN 104-558-2157

RFQ COPY TYPE NAME/ADDRESS HERE Hatch Mott MacDonald 2601 Cranberry Square Morgantown, WV 26508

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

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Cover Letter

Section 1 - Corporate History & Experience

Section 2 - CCQQ - Attachment "B"

Section 3 - RPEM - Attachment "C"



December 7, 2010

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

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 15235

Expression of Interest for Professional Engineering Design Services and Construction Monitoring Services for Shinnston (Shinns Run) Portals & AMD Project Harrison 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]



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	2601 Cranberry Square	Gateway View Plaza
Suite 601	Morgantown, WV 26508	1600 West Carson Street
Charleston, WV 25301	T 304.212.4390	Pittsburgh, PA 15219
T:304.356.3010	F 304.594.2814	T 412.497.2900
F: 304.357.9222		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



Corporate History & Experience

Page 3

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.



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

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

Mine Planning

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



Professional Surveying

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

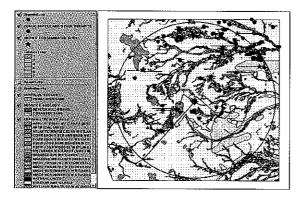
Operations Support

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



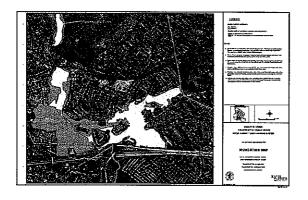
Geographic Information Systems

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.



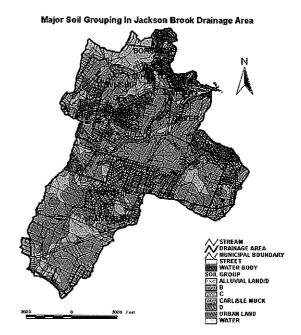
Software Applications

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



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



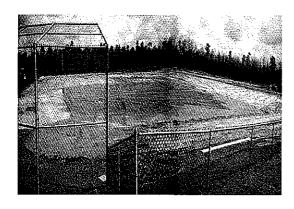
Hardware Resources

- 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.

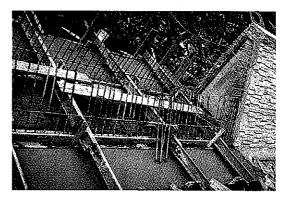


Facilities

- 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



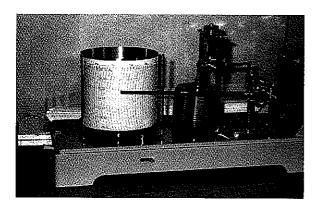
Resident Engineering

- 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

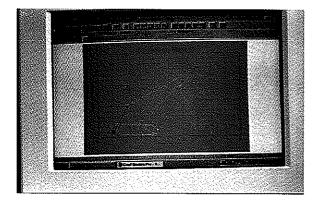
- Resource Evaluations
- Water Allocation Permits
- Well-Head Protection Area Delineation
- Diversion Impact Assessments

Dewatering

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

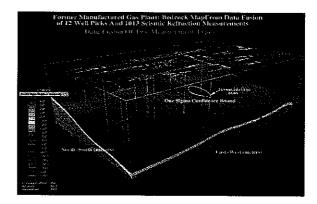
Discharge to Groundwater

- 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

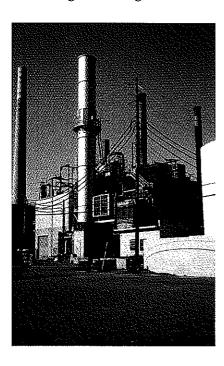


Environmental Compliance Services

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.

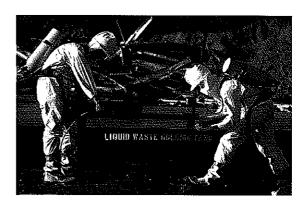
Periodic Reporting

- 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

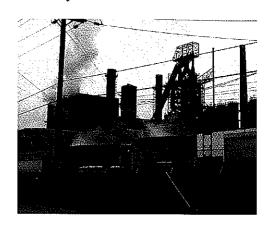


Contingency Planning

- 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.

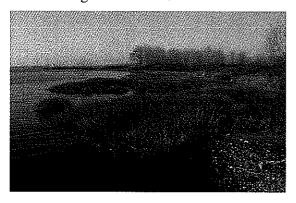


Regulatory Compliance

- 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
- OA/OC 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



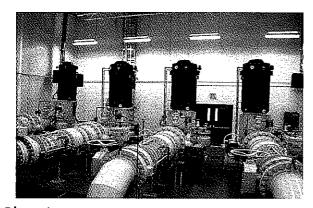
Site Remediation

- 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.

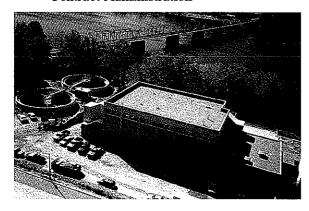


Planning

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

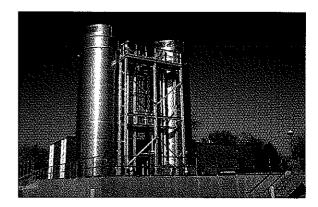
Construction Services

- 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

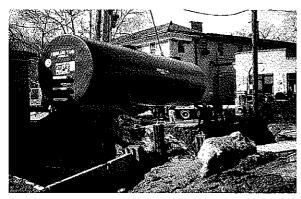


Storage Tank Management

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



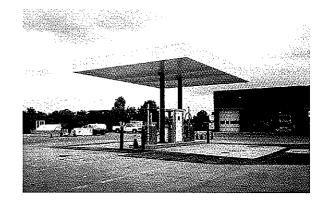
Design of New Tank Systems

- 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



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



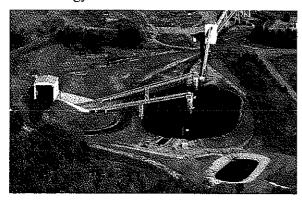


Municipal Engineering Services/ Public Works Management

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



Advisory Consultation

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

- 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

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 & Realignments
- Horizontal Directional Drilling
- Road & Highway Crossings
- Wetland & Waterbody Crossings

Pipeline Surveying

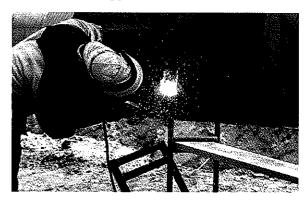
- Preliminary Survey/Alignment
- Aerial Photography & GPS
- Topographic Surveys & Profiles
- Fee Property Surveys
- Existing Conditions Surveys
- Construction Re-Stake
- Record Plan Survey

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

WEST	NIA	ENVIRON	ROTECTION
	ULTAN	CATION QUESTION	NAIRE Attachment "b
PROJECT NAME Shinnston (Shinns Run) Portals and	and AMD DATE (DAY, MONTH,	YEAR)	FEIN 16-1006700
1. FIRM NAME	TICE	SINESS ADDRESS	M NAME
Hatch Mott MacDonald LLC	27 Bleeker Street Milburn, NJ 07041		Hatch Associates Consultants, Inc. (Est. 1955) Mott MacDonald Group (Est. 1902)
CE TELEPHONE 5.	ESTABLISHED (YEAR)	6. TYPE OWNERSHIP Individual Corporation	6a. WV REGISTERED DBE (Disadvantaged Business
3-379-3400		Partnership	cerprise) YES
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ 2601 Crapherry Square, Morgantown, WV	ESS/ TELEPHONE/ PERSON IN WV 26508 304-212-4390	THE CHARGE NO. AMI	AML DESIGN PERSONNEL EACH OFFICE
	.	NAME, TITLE, &	
Richard L. Steinhart, PE, Senior Vice 9. PERSONNEL BY DISCIPLINE	ice President	Timothy M. Rice, Morgantown	own Office Area Manager (304)212-4390
$-$ Z6ADMINISTRATIVE $-$ 4 $\overline{4}$ $-$ 14ARCHITECTS $-$ 0.	4ECOLOGISTS OFCONOMISTS	- TLANDSCAPE ARCHITECTS - 23MFCHANICAT. FNGINFERS	BCTS — 65STRUCTURAL ENGINEERS 100SITDITEVORS
	35ELECTRICAL ENGINEERS	ZMINING ENGINEERS	
	17 ENVIRONMENTALISTS		$_{ m S}$ — $ m \overline{o}_{ m OTHER}$
- SCHEMICAL ENGINEERS - 3	30GEOLOGISTS	— <u>5</u> PLANNEKS: UKBAN/REG — 24 SANITARY ENGINEERS	UKBAN/KEGIONAL ENGINBERS
CTION	OHISTORIANS	- OSOILS ENGINEERS	
INSPECTORS — INSPECTORS — INSPECTORS — INSPECTORS — INSPECTORS — INSPECTOR — I	<u>-</u> HYDROLOGISIS	— USPECIFICATION WRITERS	TATETOTAL FERSONNELL
- TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE.	D PROFESSIONAL ENGINEE	RS IN PRIMARY OFFICE.	6
*RPEs other than Civil and M	and Mining must provide sur	supporting documentation that	
מהשני אומי שניים שניים בייוים	OF WOLK.		
inhart is a WV-PE and is antown office. Gary Fac	"Engineer : is a WV	" for the Morgantown of Professional Engineer	fice. James Fetty is also a WV-PE in and is the Charleston, WV office
manager. Darryl Brogan and Paul Sm. both WV-PE's and are available to	. Smith are WV Registered E to provide the Morgantown	Professional Engineers office with additional	located in our Pittsburgh office are technical and professional support.
10. HAS THIS JOINT-VENTURE WORKED TOGETHER	TOGETHER BEFORE?	YES NO N/A	

11. OUT: 'KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED Ques unnaire".	NTS ANTICIPATED TO USED. Attach "AML Consultant	nsultant Qualification
NAME AND ADDRESS: Blio Manafaia Aggid Manajag	SPECIALTY:	WORKED WITH BEFORE
11023 Mason Dixon Highway Burton, WV 26562	Aerial mapping	X Yes
MANG AND APPRECE.	CDECTAT TV.	No
NAME AND ADDRESS: Triad Engineering	SPECIALIY:	WORKED WITH BEFORE
4980 Teays Valley Road St. Albans, WV 25177	Geotechnical Drilling/Surveying	X Yes
		No
NAME AND ADDRESS: Highland Engineering	SPECIALTY:	WORKED WITH BEFORE
1426 Memorial Drive Oakland, MD 21550		X Yes
	m max	No
NAME AND ADDRESS Pennsylvania Drilling Company	SPECIALTY: Geotechnical Drilling	WORKED WITH BEFORE
281 Route 30 Imperial, PA 15126		$\frac{X}{X}$ Yes
		No
NAME AND ADDRESS: Test Boring Services, Inc.	SPECIALTY: Geotechnical Drilling	WORKED WITH BEFORE
142 Mong Road Scenery Hill, PA 15360		X Yes
		No
NAME AND ADDRESS: Sturm Environmental Services	SPECIALTY: Laboratory Analysis	WORKED WITH BEFORE
P.O. Box 650 Bridgeport WV 26330-0650		X Yes
		No
NAME AND ADDRESS: Industrial Lab Analysis, Inc.	SPECIALTY: Laboratory Analysis	WORKED WITH BEFORE
65 – 36 th Street Wheeling, WV 26003		X Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No

12. A	Is your firm's personnel experienced in Abandon. Mine Lands Remediation/Mine Reclamation Engineer.)?
	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
œ œ	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
G.	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
Ω.	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.
Ж	Is your firm experienced in domestic waterline design? (Include any experience in evaluation of aquifer degradation as a result of mining.)
W€ deg serv mar	VES 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 Fetty, 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
Ŀı	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

has designed storm water management plans for residential and commercial projects. His expertise is in mine subsidence remediation and design; mine facility 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 analysis; pre-blast surveys; slope stability analysis; geotechnical design; storm water management analysis and design; civil site designs; and commercial and 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 Mr. Rice has also received Levels I – IV of Natural Stream Channel Design Certification. He coordinated mitigation, remediation, and restoration projects for residential inspections. Mr. Law has also conducted floodplain evaluations and construction inspection of commercial properties. Mr. Law has experience in ayout and design; reclamation design; mining permits; design of acid mine drainage abatement plans; pre/post mining surveys; hydraulic and hydrological PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete YEARS OF DOMESTIC YEARS OF DOMESTIC WATERLINE DESIGN WATERLINE DESIGN ESPONSIBLE FOR AML PROJECT DESIGN (Furnish compl EXPERIENCE: EXPERIENCE: 27 Year, State) 21 REGISTRATION (Type, Year, State) YEARS OF AML RELATED DESIGN YEARS OF AML RELATED DESIGN YEARS OF EXPERIENCE YEARS OF EXPERIENCE REGISTRATION (Type, EIT, West Virginia project management, coordination and supervision for construction and design of various mining related projects. EXPERIENCE: 27 EXPERIENCE: Mr. Rice presently serves as Area Manager for the Hatch Mott MacDonald Morgantown, WV office. AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE YEARS OF AML DESIGN YEARS OF AML DESIGN design; civil site designs; and commercial and residential inspections. EXPERIENCE: 19 EXPERIENCE: several clients in close proximity to the Morgantown office. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Year, Specialization) Specialization) 23 B.S., 1982 Civil Engineering Level I, II, III, and IV Natural Stream Design, 2004 Brief Explanation of Responsibilities Brief Explanation of Responsibilities NAME & TITLE (Last, First, Middle Int.) (Last, First, Middle Int.) ".ut keep to essentials) data but keep to essentials) Project Engineer, Project Manager Project Engineer/Project Manager B.S., 1983 Mining Engineering A.A., 1980 Mining Engineering EDUCATION (Degree, (Degree, Rice, Timothy M. NAME & TITLE Law, Jeffrey L. EDUCATION dati PEP

13. PER ' AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE dat, .ut keep to essentials)	ļ.	ESPONSIBLE FOR AML PROJECT DESIGN (Furnish compl	(Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
ames W. 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.	est heering field. He was the City Engineer for storm sewer and sanitary sewer systen ater distribution, storm drainage and san ding Heather Run #4, Whispering Wood	e was the City Engineer for the City of Fairmont, West Virginia for 21 years. He has been a and sanitary sewer system projects. He has experience in the design, preparation of plans an storm drainage and sanitary sewer collection system projects. Mr. Fetty is also an experietun #4, Whispering Woods and Rupert to Rainelle recently.	21 years. He has been a ign, preparation of plans and Ir. Fetty is also an experienced
EDUCATION (Degree, Year, Specialization) B.S., 1982 Civil Engineering	ion)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS National Society of Civil Engineers Water Environment Federation	TONS	REGISTRATION (Type, Year, State) PE, West Virginia & Pennsylvania	te)
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
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:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	83		
Mr. Rogers has experience in project management, coordination and supervision for construction and design of various mining and geotechnical projects, including transportation, projects, including several AML projects. His experience includes management of one hundred plus geotechnical projects, including and a variety of public and private clients. His responsibilities have included schedule and cost control and coverall 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.	ment, coordination and supervision for or is experience includes management of a variety of public and private clients. d drilling activities, field classification of some eering evaluations include foundation recondition, Mr. Rogers has served as Projection	ation and supervision for construction and design of various mining and geotechnical related includes management of one hundred plus geotechnical projects, including transportation, bublic and private clients. His responsibilities have included schedule and cost control and ties, field classification of soil, rock, field and laboratory safety procedures, a laboratory testing tions include foundation recommendations, settlement analysis, slope stability analysis, earth Rogers has served as Project Manager for several construction testing projects.	ing and geotechnical related sts, including transportation, nedule and cost control and cedures, a laboratory testing slope stability analysis, earth sting projects.
EDUCATION (Degree, Year, Specialization) B.S., 1998, Chemical Engineering	ion)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TONS	REGISTRATION (Type, Year, State) ElT, West Virginia	re)

13. PER. AL HISTORY STATEMENT OF PRINCIPALS AND	ASSOCIATE,	ASPONSIBLE FOR AML PROJECT DESIGN (Furnish compl.	Irnish compl.
data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Peter Vaughan Senior Project Manager	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 32	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

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. 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

EDUCATION (Degree, Year, Specialization)

BS Mining Engineer, 1979

REGISTRATION (Type, Year, State)				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	Board Member and Officer SME- Society for Mining, Metallurgy & Exploration,	lnc.	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 EXPERIENCE	YEARS OF AML RELATED DESIGN EXPERIENCE: 32 EXPERIENCE: 0
		YEARS OF AML DESIGN EXPERIENCE: 7
data bac social and so	NAME & TITLE (Last, First, Middle Int.)	Chuck Yurchick Project Geologist

Brief Explanation of Responsibilities

permitting activities, hydrologic studies pertaining to surface and under-ground mine activities, geologic and geo-technical drilling projects, natural and 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. Mr. Yurchick is experienced in project management, coordination and supervision of coal exploration projects, coal and non-coal surface and deep mine

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

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Society for Mining, Metallurgy and Exploration,	Professional Geologist, 1995, PA
SME of the AIME,	O COLV tringland language of the color of th
Founding Registered Member of the Society for Mining, Metallurgy and	Certined Professional Geologist- Air G, Cr
Exploration,	
American Institute of Professional Geologists	

artified Professional Geologist- AIPG, CPG-5117

STATE OF THE PARTY Page 19	TITLE (Last, First, Middle			
Company of the process of the proc	semyer, P.E., PS		YEARS OF EXPERIENCE	
Hart of Explanation of Responsibilities M. Frequency to be been responsible for planning degree permitting, construction management and construction of numerous abandoned mine land reclamation projects over a 20 year period. Projects included Spread cleans, high well reduction of infinite period. Projects included spread cleaners, high well reduction of infinite period. The project included Spread cleaners, high well reduction of infinite period. This work also included Spread cleaners, high well reduction of infinite period. The project included Spread cleaners in the control of Technology 1975 B. S. Chill Engineering WV Institute of Technology 1975 B. S. Chill Engineering WV Institute of Technology 1975 B. S. Chill Engineering WV Institute of Technology 1975 B. S. Chill Engineering WV Institute of Technology 1975 B. S. Chill Engineering WV Institute of Technology 1975 B. S. Chill Engineering WV Institute of Technology 1975 B. S. Chill Engineering WV Institute of Technology 1975 B. S. Chill Engineering WV Institute of Technology 1975 B. S. Chill Engineering WV Institute of Technology 1975 B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities B. S. Chill Engineering WV Institute of Sespons ibilities of Sespons ibilities of Sespons ibilities of		ы	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
### Project Explanation of Responsibilities #### Project Explanation of Responsibilities ###################################		20		EXPERIENCE: 32
Very period. Projects included mine portal closures, high wall reduction or climination, relike piles, burning seams, landslides, stream restoration, drainage orrection, acid mine claimage, water deskibility suckers and water system designs. This work also included Special Relamation (hord forfaiture) assessment, water testing, and AMD treatment. B. S. Civil Engineering WV Institute of Technology 1975 B. S. Civil Engineering WV Institute of Technology 1975 MEMBERSHIP IN PROSESSIONAL ORGANIZATIONS B. S. Civil Engineering WV Institute of Technology 1975 MEMBERSHIP IN PROSESSIONAL ORGANIZATIONS B. S. Civil Engineering WV Institute of Technology 1975 MEMBERSHIP IN PROSESSIONAL ORGANIZATIONS B. S. Civil Engineering WV Institute of Technology 1975 MEMBERSHIP IN PROSESSIONAL ORGANIZATIONS B. S. Civil Engineering WV Institute of Technology 1975 MEMBERSHIP IN PROSESSIONAL ORGANIZATIONS B. S. Civil Engineering WV Institute of Technology 1975 MEMBERSHIP IN PROSESSIONAL ORGANIZATIONS Professional Engineering the development and quality control of Pytriologic and Pydraulic dynamic computer models using various computer programs. He has an extensive background in the development and quality control of Pydralogic and Pydraulic dynamic computer models using various computer programs. He has an extensive background in the development and quality control of Pydralogic and Pydraulic Saveral different facilities. MEMBERSHIP IN PROPESSIONAL ORGANIZATIONS Professional Engineering State University Professional Engineering State University Professional Engineering State University Professional Engineering Professional Engineering Professional Engineering Professional Engineering Profes	Brief Explanation of Responsibilities Wr Facenverhas been responsible for planning design ne	I rmittino construction management and co	nstruction of numerous abandoned mine la	nd reclamation projects over a 20
This work also included Special Reclamation (bond forfeiture) assessment, waitr testing, and AMD treatment. EUCCATION (Degree, Year, Specialization) MESSENDER IN PROFESSIONAL ORGANIZATIONS MEDICAL CARROLL OF AND VARY MEDICAL CARROLL OF AND VARY MOSCIETY OF Experiments of CAVI Engineers of CAVI	year period. Projects included mine portal closures, high w correction, acid mine drainage, water feasibility studies and	all reduction or elimination, refuse piles, b water system designs.	urning refuse, burning seams, landslides, s	tream restoration, drainage
B. S. Civil Engineering WV Institute of Technology 1975 WINDERESEIP IN PROFESSIONAL ORGANIZATIONS WENDERSEIP IN PROFESSIONAL ORGANIZATIONS I.3. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete date but keep to essentials) NAME of TITLE (tast, First, Middle Int.) I SEARS OF AML DESIGN WENDERSEIP IN PROFESSIONAL ORGANIZATIONS Brief Explanation of Responsibilities Brief Explanation (Type, Year, State) Brief Explanation (Type, Year, State) Brief Explanation (Type, Year, State)	This work also included Special Reclamation (bond forfeitu	re) assessment, water testing, and AMD tra	eatment.	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MEMBERSHIP IN PROFESSIONAL GREANIZATIONS Merican Society of Civil Engineers - Past President WV Professional Engineer, WV OH PA MD VA KY Professional Surveyor; WV Society of Engineering Companies/WV WV Society of Engineering Companies/WV WV Society of Engineering Companies/WV WV Society of Professional Surveyors 13. PERSONAL HISTORY STRIBMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DESIGN (Furnish complete data but keep to essentials) WARME & TITLE LAST, First, Middle Int.) EXPERIENCE: Brian Monce, PE Project Engineer Project Engineer Froject Engineer 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 hydraulic dynamic computer models using 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., CAVI/Environmental Engineering, 1998, Pennsylvania State University Professional Engineer, 2003, Ohio Professional Engineer, 2003, Ohio Professional Engineer, 2003, Ohio	EDUCATION (Degree, Year, Specialization) B. S. Civil Engineering WV Institute of Technology 19	375		
ABAME & TITLE (last, First, Middle Int.) YEARS OF AML PROJECT DESIGN (Furnish complete and at a but keep to essentials) YEARS OF AML PROJECT DESIGN (Furnish complete Brian Moore, PE Project Engineer Project Engineer Project Engineer 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 panking facilities for several different facilities. DEDUCATION (Degree, Year, Specialization) B.S. Civil/Environmental Engineering, 1998, Pennsylvania State University Professional Engineer, Z003, Ohio	MBERSHIP IN PROFESSIONAL ORGAN stican Society of Civil Engine stican Council of Engineering Society of Professional Surve	resident	REGISTRATION (Type, Year, S Professional Engineer, WV OH PA N Professional Surveyor, WV	tate) ID VA KY
NAME & TITLE (last, First, Middle Int.) YEARS OF ANL DESIGN YEARS OF ANL DESIGN YEARS OF OF ANL DESIGN YEARS OF OF ANL DESIGN	PERSONAL HISTORY STATEMENT OF	ASSOCIATES		
Brian Moore, PE	& TITLE (Last, First, Middle		YEARS OF EXPERIENCE	
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	Brian Moore, PE Project Engineer	YEARS OF AMI DESIGN EXPERIENCE: 2	XEARS OF AML RELATED DESIGN EXPERIENCE: 8	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 8
Specialization) eering, 1998, Pennsylvania State University REGISTRATION (Type, Year, AL ORGANIZATIONS Professional Engineer, 2003, Ohic	Brief Explanation of Responsibilities Mr. Moore has served as a Project Engineer and Tasl the development and quality control of hydrologic and maps and plan-profile sheets for various infrastructure including drainage and parking facilities for several di	A Manager for various water and waster hydraulic dynamic computer models us projects using automated computer merent facilities.	water conveyance projects. He has an ising various computer programs. He hathodologies. Mr. Moore also has site	extensive background in as also generated base design experience
IN PROFESSIONAL ORGANIZATIONS Professional Engineer, 2003, Ohic	EDUCATION (Degree, Year, Specialization) B.S., Civil/Environmental Engineering, 1998, Pennsyl			
Professional Engineer, 2003, Ohio	NI		(Type, Year,	tate)
			Professional Engineer, 2003, Ohio	

13. PERAL HISTORY STATEMENT OF PRINCIPALS	IPALS AND ASSOCIATEESPONSIBLE	FOR AML PROJECT DESIGN	(Furnish compl
TLE (Last, Fir		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE: 3	ACE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities		17.7170000	
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 decipients, management of field operations for exploration and geo-technical projects and property damage evaluations due to geologic hazards.	ervision of coal exploration projects, coa round mine activities, geologic and geo-t damage evaluations due to geologic haz	il and non-coal surface and deep mine prechnical drilling projects, management ards.	permitting activities, of field operations for
EDUCATION (Degree, Year, Specialization)			
Earth Sciences, 1997, California University of Pennsylvania	sylvania		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	IPALS AND ASSOCIATES RESPONSIBLE	FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
John Green Surveyor	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 32	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 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.	I h over 30 years of experience in the eng d in most conventional types of surveyin ght-of-way plan process.	ineering industry in surveying or surveying with some experience in newer non-c	related capacities and as an onventional types such as
EDUCATION (Degree, Year, Specialization) Civil Engineering Technology, 1976			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St	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	70

13. PERLIMAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND ASSOCIATE	.ESPONSIBLE FOR AME PROJECT DESIGN (Furnish comple	nish completa
Fir		YEARS OF EXPERIENCE	THE RESIDENCE OF THE PROPERTY
Jason Reese CADD Designer	YEARS OF AML DESIGN EXPERIENCE: 7	YEARS OF AML RELATED DESIGN EXPERIENCE: 11	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 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.	MacDonald. His past experience include in West Virginia and Pennsylvania. Mr. on and sediment control plans, and 3D M	His past experience includes AML design projects for the State of West Virginia. He is also spina and Pennsylvania. Mr. Reese is familiar with basic surveying techniques, storm water nent control plans, and 3D Modeling using ACADD.	Vest Virginia. He is also echniques, storm water
EDUCATION (Degree, Year, Specialization) CADD, 1998, Monongalia County Vocational Center			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St	State)
NAL HISTORY	PALS AND ASSOCIATES RESPONSIBLE	FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Yanero ner	YEARS OF AML DESIGN EXPERIENCE: 9	YEARS OF AML RELATED DESIGN EXPERIENCE: 37	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 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.	nald. His past experience includes AML of design for West Virginia. He is also knowestigation and pre-blast surveys. Mr. Itrance permits, Department of Health artoCAD 3D.	design projects for the states of West Vowledgeable with storm water application Yanero is also familiar with design, op Id Human services permits for sanitation	irginia, Maryland and Ohio, ons and design related to eration and maintenance of n and waterline feasibility
EDUCATION (Degree, Year, Specialization)			1777
AS, 1974, Engineering Technology, Fairmont State College	college		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, Sta	State)

13. PER. AL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND ASSOCIATE.	ESPONSIBLE FOR AME PROJECT DESIGN (Furnish	mish comple
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AMI DESIGN EXPERIENCE: 1	YEARS OF AML RELATED DESIGN EXPERIENCE: 3	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities			
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.	of 2006 and is now working as an Eng I report compliances, groundwater m ted to: a Trimble GeoXT GPS, a Mar	jineer in the Morgantown office. His expe onitoring, and hydrologic flow studies. He sh-McBirney Model T2000 Flow Meter and	rience includes extensive is proficient in operating I various other groundwater
EDUCATION (Degree, Year, Specialization)	·		
BS, 2004, Civil Engineering			
AS, 1999, Mathematical Science			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers		REGISTRATION (Type, Year, St EIT, West Virginia	State)
13 DERSONAL HISMORY STATEMENT OF DRINCIPALS	HIGH SOUND STATE OF S	AMI. DECTECH DESIGN	h + مالمسم باء نسمین ا
data but keep to essentials)	Š	TON THE ENGINEER PERIOR	יוודמוו כסווולדום כש
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Cline, Jeremiah C.	YEARS OF AML DESIGN	YEARS OF AML RELAIED DESIGN	YEARS OF DOMESTIC
Engineer	2	EXPERIENCE: 4	WAIEALINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities			
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	testing, construction and environme to the servations of making keen observations of	ntal inspection services, monitoring the mainth respect to the effects of longwall mining	any different physical ig 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.	or several large scale stream monitor ing tasks for each of nearly 30 persor on that includes Rosgen Level One –	ing projects. Mr. Cline is also managing e is at 5 deep mine sites, on a daily basis. I Fluvial Geomorphology for Engineers and	equipment and people in a He has had several I other classes hosted by
EDUCATION (Degree, Year, Specialization)			TO THE PROPERTY OF THE PROPERT
BS, 2003, Civil Engineering Rosgen Level 1 – Fluvial Geomorphology for Engineers Rosgen Level 2 – River Morphology and Applications		Natural Stream Design Construction Management Workshop Introduction to Stream Surveying 10-Hour OSHA Training Course in Construction Safety & Health	t Workshop afety & Health
Rosgen Level 3 – River Assessment and Monitoring		•	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St EIT, West Virginia	State)
ASCE – WV Northern Branch (President)			

rears of AML DESIGN EXPERIENCE: 2 Insibilities ist with a proven track record of success in operating numerous pieces of equipment includes the pecialization) OF Flow Meter and various other groundwater and pecialization) MENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE tials) WEARS OF AML DESIGN EXPERIENCE: 1 Ned in wetland identification and delineation, and ecological ut the Midwest and Mid-Atlantic and has field experience in pecialization)	SERVERIENCE: 6 EXPERIENCE: 6 EXPERIENCE: 0 EXPERIENCE SEASONSIBLE FOR AML PROJECT DESIGN (Furnish complete YEARS OF EXPERIENCE EXPERIENCE: 6 EXPERIENCE: 6 EXPERIENCE: 6 EXPERIENCE: 6 EXPERIENCE: 6 EXPERIENCE: 0
Brief Explanation of Responsibilities Mr. McDermott is a Geologist with a proven track record of success in data. He is proficient in operating numerous pieces of equipment inclumarsh-McBirney Model T2000 Flow Meter and various other groundwater an EDUCATION (Degree, Year, Specialization) BS, 2005, Geology MENBERSHIP IN PROFESSIONAL ORGANIZATIONS Adta but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Matthew Lauffer Wetland Scientist/Ecologist Mr. Lauffer is a field biologist involved in wetland identification and delineation, and ecological ecological investigations throughout the Midwest and Mid-Atlantic and has field experience in EDUCATION (Degree, Year, Specialization) MS, Ecology, 2008 BS, Natural Biology, 2002 BS, Natural Biology, 2002	of success in collecting, analyzing and graphical quipment including, but not limited to: a Trimble groundwater and surface water sampling instrument stroundwater and surface water sampling instrument REGISTRATION (Type, Year, State) ES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish of EXPERIENCE 6 EXPERIENCE: 6 EXPERIENCE: 6 EXPERIENCE: 6 On, and ecological surveys. He has performed wetland delineation of the strong
Mr. McDermott is a Geologist with a proven track record of success in data. He is proficient in operating numerous pieces of equipment inclumarsh—McBirney Model T2000 Flow Meter and various other groundwater an EDUCATION (Degree, Year, Specialization) BS, 2005, Geology MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AGAE BLILLE (Last, First, Middle Int.) Wetland scientist/Ecologist Wetland Scientist/Ecologist Mr. Lauffer is a field biologist involved in wetland identification and delineation, and ecological ecological investigations throughout the Midwest and Mid-Atlantic and has field experience in EDUCATION (Degree, Year, Specialization) MS. Ecology, 2008 BS, Matural Biology, 2002 BS, Matural Biology, 2002	of success in collecting, analyzing and graphical quipment including, but not limited to: a Trimble groundwater and surface water sampling instrument REGISTRATION (Type, Year, State) ES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish of YEARS OF EXPERIENCE EXPERIENCE (Furnish of AMTERIENCE) On, and ecological surveys. He has performed wetland delineation of the state o
EDUCATION (Degree, Year, Specialization) BS, 2005, Geology MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS At a but keep to essentials) NAME & TILLE (Last, First, Middle Int.) Matthew Lauffer Wetland Scientist/Ecologist Mr. Lauffer is a field biologist involved in wetland identification and delineation, and ecological ecological investigations throughout the Midwest and Mid-Atlantic and has field experience in 1 EDUCATION (Degree, Year, Specialization) MS, Ecology, 2008 BS, Natural Biology, 2002	ES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish of YEARS OF EXPERIENCE GN YEARS OF EXPERIENCE EXPERIENCE: 6 EXPERIE
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Matthew Lauffer Wetland Scientist/Ecologist Mr. Lauffer is a field biologist involved in wetland identification and delineation, and ecological ecological investigations throughout the Midwest and Mid-Atlantic and has field experience in MS. Ecology, 2008 BS, Natural Biology, 2002 MS, Ecology, 2008 BS, Natural Biology, 2002	ES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish of YEARS OF EXPERIENCE GN YEARS OF EXPERIENCE EXPERIENCE EXPERIENCE: 6 EXPERIENCE
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Matthew Lauffer Wetland Scientist/Ecologist Brief Explanation of Responsibilities Mr. Lauffer is a field biologist involved in wetland identification and delineation, and ecological ecological investigations throughout the Midwest and Mid-Atlantic and has field experience in BS, Natural Biology, 2002 BS, Natural Biology, 2002	ES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish of YEARS OF EXPERIENCE EXPERIENCE EXPERIENCE: 6 EXPERIENCE: 6 EXPERIENCE: 6 EXPERION On, and ecological surveys. He has performed wetland delineation of the state of
Matthew Lauffer Wetland Scientist/Ecologist Wetland Scientist/Ecologist Experience: Matthew Lauffer Wetland Scientist/Ecologist Experience: Mr. Lauffer is a field biologist involved in wetland identification and delineation, and ecological ecological investigations throughout the Midwest and Mid-Atlantic and has field experience in the Education (Degree, Year, Specialization) EDUCATION (Degree, Year, Specialization) MS. Ecology, 2008 BS. Natural Biology, 2002	YEARS OF EXPERIENCE GN YEARS OF AML RELATED DESIGN YEARS OF AML RELATED DESIGN WATERLED EXPERIMENTAL OF AML R
Matthew Lauffer YEARS OF AML DESIGN Wetland Scientist/Ecologist EXPERIENCE: Brief Explanation of Responsibilities 1 Mr. Lauffer is a field biologist involved in wetland identification and delineation, and ecological ecological investigations throughout the Midwest and Mid-Atlantic and has field experience in the BDUCATION (Degree, Year, Specialization) MS, Ecology, 2008 BS, Natural Biology, 2002	GN YEARS OF AML RELATED DESIGN YEARS WATERL EXPERIENCE: 6 EXPERIMATERIAL EXPERIMATE On, and ecological surveys. He has performed wetland delineation
Brief Explanation of Responsibilities Mr. Lauffer is a field biologist involved in wetland identification and delineation, and ecological ecological investigations throughout the Midwest and Mid-Atlantic and has field experience in teducation (Degree, Year, Specialization) MS, Ecology, 2008 BS, Natural Biology, 2002	on, and ecological surveys. He has performed wetland delineation
Year,	en experience in the identification of aquatic plants and terrestria
Year,	The second secon
BS, Environmental Science, 2002	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Society of Wetland Scientist (SWS)	REGISTRATION (Type, Year, State)

FIELD EQUIPMENT

DESIGN SERVICES

14. PRO

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

Personal Protective Equipment (PPE) Tripod Confined Space Entry System

General Equipment

Air Compressor (electric powered, 110V)

Digital Camera

Electric 110V-220V Generator (gas powered)

Jar Test Apparatus

Field Kits (HACH) Settling Column

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 Excel Microsoft Word

Microsoft PowerPoint

Microsoft Outlook Microsoft Project

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)

NQM 7.0 (BOD/NH3 wasteload allocation) PENTOXSD for Windows (effluent limits)

GIS and Database

ArcGIS (GIS mapping and database mgmt.)

SQLServer (database management) Oracle (database management)

Microsoft Access (simple databases)

OFFICE EQUIPMENT

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

Oce Wide Format Color Scanner

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	2%
Barbour County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Mine Closures, Highwall Reduction, Regrade/Revegetation	\$149,000	%09
Heather Run No. 2 Preston County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Mine Closures, Highwall Reduction, Channel Design	\$102,000	%06
Pendleton Creek Strip Tucker County, WV	West Virginia Division of Environmental Protection	Reclamation Design, Natural Stream Channel Design, ARRI Reforestation Plan	\$153,000	%86
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	20%
TOTAL NUMBER OF PROJECTS:10	8:10	TOTAL ESTIMATED COSTS: \$15,597,393		

AGINEER OF RECORD

15. CUR. . I ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE.

16. CUR. "I ACTIVITI	16. CUR. "I ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A	AS ACONSULTANT TO OTHERS	OTHERS		
PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION	ESTIMATED CONSTRUCTION	NSTRUCTION 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	\$300,000	25,800

17. C. LETED WORK WITHIN LAST 5 YEARS ON WHICH	YOUR FIR	AS THE DESIGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION	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 Appollo 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	ON.
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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION	YEAR	CONSTRUCTED (YES OR NO)
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.	Millburn Township 375 Millburn Avenue Millburn, NJ 07041	\$2,000	-going	Yes
Heartland Corridor Project, Various aluation of clearances, condition, and acteristics for 30 railroad tunnels. Laser car botechnical borings, liner samples, and visual sed to establish the existing baseline evaluate the potential for tunnel modifications ial clearances.	Norfolk Southern James N. Carter 404.529.1408	\$180,000,000	2005	V/A
for Route 70 Bridge Over n and construction acement of a collapsed bridge loped diversionary road ation design for a 130' ning all lanes of traffic, which s after the collapse. Ultra fast- d detailed design sketches in for use by contractor and e NJDOT Procedures Manual, lals and AASHTO Standard replacement structure.	New Jersey DOT 1035 Parkway Avenue Trenton, NJ Brian Strizki 609.530.6363	\$3,000,000	2004	Yes
				·

TAMS Consultants RWA Associates 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 ASSOCIATED Haley & Aldrich, HASE 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). MILH Additionally our current staff has over 100 years of AML experience in six different states and gives us the knowledge and understanding of project AS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICAL Date: December 9, 2010 19. Use this space to provide any additional information or description of resources supporting your firm's CONSTRUCTED (YES OR NO) Yes Yes Yes YEAR 2006 2003 2003 qualifications to perform work for the West Virginia Abandoned Mine Lands Program. CONSTRUCTION COST OF YOUR FIRM'S PORTION Title: Area Manager (Construction) (Construction) ESTIMATED \$30.87 M \$166,000 \$2.5 M LETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIR Newington, CT 06131-Cleveland, OH 44115-NAME AND ADDRESS Columbus, OH 43219 2800 Berlin Turnpike, 4600 International Columbus Airport P.O. Box 317546 OF OWNER 3826 Euclid Ave. Regional Sewer Northeast Ohio **Transportation** Department of OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE) Connecticut Authority Gateway District 7546 2504 better serve WVDEP-AML and southern West Virginia. 20. The foregoing is a statement of facts. and provided on site supervision for the construction of a completed a feasibility study and subsequently designed shaft excavation and lining systems. 30% design of tunnel linings and construction cost estimates for all tunnel had to be constructed under four live Metro-North Railroad tracks, which also carry the East Coast Main tunnel construction contracts. This project involved Columbus Crossover Taxiway, Port Columbus bridge types, structural systems, de-icing systems, 16-mi of CSO tunnels, from 20 to 27-ft in finished Preliminary structural design engineering for the As part of an ADA compliance upgrade, a pedestrian Easterly Advanced Facilities Plan, Cleveland, OH reporting, feasibility and selection of tunnel and taxiway bridge(s) including an investigation of Line service between Boston and New York. HMM costing and development of structural design diameter and as deep as 200 feet traversing QA/QC of geotechnical data collection and Rice Westport Railroad Station, Westport, CT International Airport, Columbus, OH: PROJECT NAME, TYPE AND LOCATION Timothy M. primarily through Chagrin Shale. considerations for final design. 75 ft long jacked tunnel. Printed Name: Signature:





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-scaled. 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

Client

West 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 unscaled. 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

Westmoreland, PA

Client

Crow's Nest Synfuels, L.P.

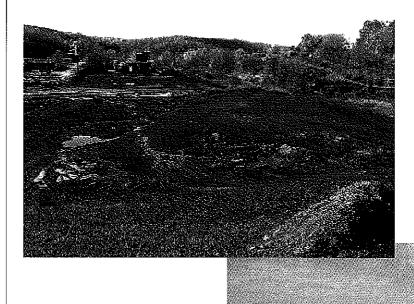
Services

- PADEP Permit
- MSHA Permit
- Erosion and Sediment Control Plan
- Mapping
- Surveying
- Surface and Groundwater Monitoring
- Annual Certification
- · Reclamation Plan
- · Closure Permits
- Construction Monitoring
- · Channel Design
- · Construction Inspection

Project Description

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.

Work included all design and permitting associated with the initial opening of this facility. HMM was also retained to monitor the operations and perform quarterly certifications. Annual renewals, modifications and compliance was also part of HMM's duties. The project was successfully followed through the reclamation and bond release stages of all state and federal regulatory agencies.







Location Somerset County, PA

Client Hoffman Mining Company

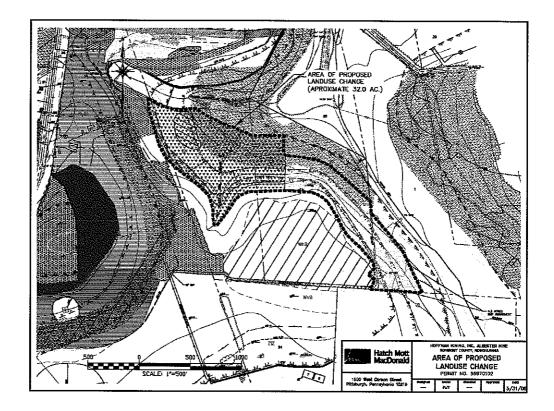
Services

- PADEP Permit
- Erosion and Sediment Control Plan
- Mapping
- Surveying
- Surface and Groundwater Monitoring
- · Annual Certifications
- · Reclamation Plan
- · Closure Permits
- Construction Monitoring
- · Channel Design
- Construction Inspection
- · Bond Release

Project Description

Hatch Mott MacDonald (HMM) was retained by the client to develop a surface mine permit for a site in Somerset County, Pennsylvania. The site included several land use changes.

Work included all design and permitting associated with the initial opening of this surface mine. HMM was also retained to monitor the operations, perform quarterly certifications, annual renewals, modifications, and compliance. The project was successfully followed through the reclamation and bond release stages of all state and federal regulatory agencies.







Location

Bayard, WV

Client

Confidential Mining Client

Project Type

Hydraulic Analysis

Services

Hydraulic Analysis Study

Duration

September 2004 – February 2005

Project Description

The client had an inactive mine site where they were operating a treatment plant to treat acid mine drainage. During large storm events, the steep slopes of the site caused rapid increases in the flow conveyed through the onsite drainage network. These increases in flow resulted in sudden spikes in the flow rates entering the treatment plant. This project was conducted to provide an evaluation of alternatives for reducing the peak flow rates during storm events that would allow the treatment plant to maintain operation within a preferred flow range during.

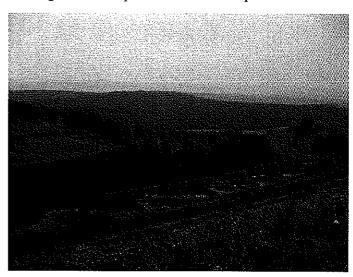


HMM Role

HMM was tasked with performing a hydraulic and hydrologic study of the site and providing specific alternatives for reducing peak flows at the treatment plant. These alternatives included additional detention basins and the application of real time controls to better utilize storage available within the existing drainage network. HMM also provided supplementary services including collecting the necessary flow monitoring and rainfall data to calibrate the hydraulic model. In addition, HMM provided survey services of the various drainage paths throughout the site that forms the basis of the hydraulic model.

Highlights

- · Performed GPS surveying of open drainage channels and various culverts throughout the site
- Collected flow monitoring data using both weirs (open channel) and area-velocity meters (culverts) in an aggressive chemical environment.
- Utilized the calibrated hydraulic model to evaluate various alternatives to reduce peak flows
 entering the treatment plant in addition to reducing the overall operational costs of the plant.





Stream Monitoring and Data Collection

Location

Washington and Greene Counties, PA

Client

Confidential Mining Client

Project Type Market/Discipline area

Services

- Stream Data Collection and Management
- GIS and GPS Data Collection
- Landowner Contacts
- Area Logistics
- Project Scheduling
- Secure Information Exchange
- Integrated Web-based Project

Duration 2003-present

Construction Cos

Construction Cost \$4,000,000 annually

Project Description

This confidential coal mining client is among the nation's top energy companies. They mine more high-Btu bituminous coal than any other producer in the United States, and is the nation's leader in underground coal mining. The client has operations located throughout major US coal-producing regions. They are the largest producer of coal bed methane in the US. For 140 years, the client and its predecessor companies have been industry leaders in production, profitability, safety, and environmental stewardship. Hatch Mott MacDonald (HMM) is currently assisting this client in managing, and developing an extensive study of the streams that overlie longwall coal mines. The study involves studying and documenting the streams' flow; geomorphology, hydrology and noting any changes in streams or the surrounding ecosystem. The accurate and consistent, collection of the data is critical to the integrity and quality of the study. The end result is a significant amount of field data that accurately portrays the streams and watersheds of the mining surface areas.

HMM Role

Hatch Mott MacDonald (HMM) is currently assisting the client in managing, and developing an extensive study of the streams that overlie longwall coal mines. The study involves studying and documenting the streams' flow; geomorphology, hydrology and noting any changes in streams or the surrounding ecosystem. The accurate and consistent, collection of the data is critical to the integrity and quality of the study. The end result is a significant amount of field data that accurately portrays the streams and watersheds of the mining surface areas.

Project Highlights

- Project Development The project development was undertaken by client and HMM teams.
 The data collection and entry as well as data management are critical to the success of the study.
 Additional areas of development include
 - Stream data collection techniques and equipment evaluation
 - GIS and GPS data collection and organization
 - Landowner contacts and area logistics
 - Project Scheduling and Information Exchange
 - Web based access to data
- Data Collection Work included setting up flow monitoring stations along designated sections of streams within the study areas being long-wall mined. Over 600 different flow-monitoring stations and more than 144 miles per month of stream morphology are uploaded into Trimble Geo XH sub-foot GPS units and traversed every month. These units were then used to navigate to each individual site of study. Once sites were located, stream flow measurements, water samples and digital photos were taken. Any changes along the length of stream in the geologic rock structures, stream channel conditions or stream flow were documented photographed, and filmed and entered into the GPS. The stream flow measurements were taken using a Marsh-McBirney Flo-mate 2000. All flow-monitoring sites are monitored monthly at a minimum and daily on a maximum basis. All field data collected is entered into a large data base where the data can be queried and printed for the clients at any given time for regulatory agencies, historical record, or research for expansion in new permit areas.
- Landowner Contacts and Logistics Managing the landowner contacts, issues, and incidents
 is essential to the continuity and success of the project. HMM coordinated this activity with the
 client's land agents and many other consultants being used by the client.
- Project Scheduling and Information Exchange All HMM field teams and other field teams
 are scheduled using an open web based system developed by HMM called File Share.
 Mapping, documents and data can be shared and exchanged using the File Share system.
- Web Based Access to Data –HMM assisted the Client in developing an extensive web based data access system.



Stream Mitigation & Remediation Project

Location

Greene and Washington Counties, PA

Client

Confidential Coal Client

Services

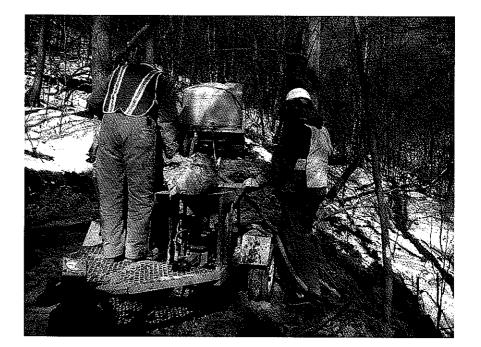
- Augmentation Work Plans
- Grout Injection Work Plans
- Subsurface Investigation Plans
- · Stream Surveying
- · Flow Monitoring
- Surface and Groundwater Monitoring
- GIS Mapping
- · Hydrologic Modeling
- Channel Design
- · Report Preparation
- Construction Inspection

Project Description

Hatch Mott MacDonald was retained by a private coal client to assist in the mitigation and remediation of over 50,000 lineal feet of streams that have been affected by longwall mining.

Work included surface and groundwater monitoring, hydrologic modeling, and subsurface investigations to determine minimum base flows for development of augmentation plans. Geologic conditions were then used to prepare a mitigation plan and develop a grout injection design for remediating the loss segments of the affected streams. This grout injection design consisted of a shallow, low-pressure injection of portland and bentonite to seal fractures and reduce water loss. Stream surveying of the remediation sites and control streams were used to establish a stable stream geometry that would effectively carry bankfull flows. Trimble GPS units and GIS software was used to develop maps showing the flow advancement downstream as construction progressed.

HMM performed the construction inspection and construction management of the project. This work included full-time inspection, evaluation of contractor performance and work product, and approval of contractor quantities.





Impoundment Mitigation and Restoration Project

Location Wetzel County, WV

Client Confidential Coal Client

Services

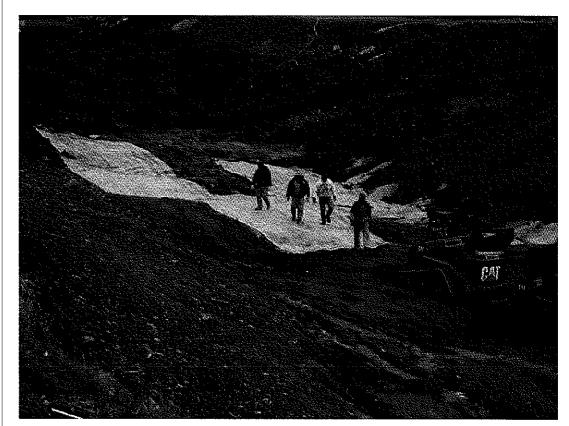
- Grout Injection Work Plans
- Subsurface Investigation
- · Surveying
- · Utility camera survey
- GIS Mapping
- · Liner Design
- · Cost Analysis
- · Construction Inspection

Project Description

Hatch Mott MacDonald was retained by a private coal client to assist in the mitigation and remediation of an existing private impoundment that had been affected by longwall mining.

Work included investigation of subsurface data, groundwater monitoring, hydrologic modeling, and flow loss analysis. Hatch Mott MacDonald developed a combination grout injection plan and geosynthetic liner design. This grout injection plan consisted of a shallow, low-pressure injection of a mixture of Portland cement and bentonite to seal fractures and reduce water loss. The geosynthetic liner design utilized an impermeable bentonite mat at select locations within the pond bottom. A utility camera was used to observe infiltration and leakage of the pipe principal spillway.

HMM performed the construction inspection and construction management of the project. This work included full-time inspection, evaluation of contractor performance and work product, and approval of contractor quantities.





Lost Creek Floodplain Investigation

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.

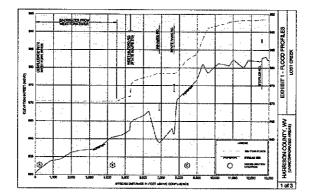
Hydrologic/Hydraulic Evaluations - HMM used HEC-RAS to establish the peak flow for the 100-year storm using current US Geological Survey (USGS) regression equations for rural watersheds. The resulting floodplain and floodway boundaries for the 100-year storm event were mapped on

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 exceed five percent of the total contract amount.

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Hatch Mott MacDonald	_
Authorized Signature: Date: Date:	_
State ofWest Virginia	
County of Monongalia , to-wit:	
Taken, subscribed, and sworn to before me this 6 day of Decomber , 2010	
My Commission expires, 20_17	
AFFIX SEAL HERE NOTARY PUBLIC \ DANOTO CARLES	

