

NOTICE

Please note this bid from Dieffenbach Hritz for the solicitation DEP2100000002 was received at the Purchasing Division office prior to the established bid-opening date and time on September 10, 2020, but did not load properly at the public bid opening. This response has since been loaded and is now posted.



Frank Whittaker

Assistant Purchasing Director



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

General Information

Contact

Default Values

Discount

Document Information

Clarification Request

Procurement Folder: 764170

Procurement Type: Central Purchase Order

Vendor ID: VS0000019973

Legal Name: DIEFFENBAUCH & HRITZ LLC

Alias/DBA:

Total Bid: \$0.00

Response Date: 09/10/2020

Response Time: 10:28

Responded By User ID: DandHLLC

First Name: Kerry

Last Name: Westfall

SO Doc Code: CEOI

SO Dept: 0313

SO Doc ID: DEP2100000002

Published Date: 8/31/20

Close Date: 9/10/20

Close Time: 13:30

Status: Closed

Solicitation Description: CEOI - Kempton Refuse Rehabilitation Project

Total of Header Attachments: 1

Total of All Attachments: 1



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

**State of West Virginia
 Solicitation Response**

Proc Folder: 764170
Solicitation Description: CEOI - Kempton Refuse Rehabilitation Project
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2020-09-10 13:30	SR 0313 ESR09102000000001689	1

VENDOR
 VS0000019973
 DIEFFENBAUCH & HRITZ LLC

Solicitation Number: CEOI 0313 DEP2100000002
Total Bid: 0
Response Date: 2020-09-10
Response Time: 10:28:58
Comments:

FOR INFORMATION CONTACT THE BUYER

Guy Nisbet
 (304) 558-2596
 guy.l.nisbet@wv.gov

Vendor Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI Engineering Design Services				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

*Dates of Service are estimated for bidding purposes only.

QUALIFICATIONS

for the

EOI – WV DEP KEMPTON REFUSE REHABILITATION PROJECT (CEOI 0313 DEP2100000002)

Tucker County, West Virginia

Prepared for:

**DEPARTMENT OF ADMINISTRATION, PURCHASING DIVISION
2019 Washington Street East
Charleston, WV 25305-0130**



DIEFFENBAUCH & HRITZ

1095 Chaplin Road, Suite 200
Morgantown, West Virginia 26501

September 10, 2020

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Herbert L. Parsons III Operations Leader
 (Name, Title)
Herbert L. Parsons III, PE, PS, Operations Leader
 (Printed Name and Title)
1095 CHAPLIN ROAD, SUITE 200, MORGANTOWN, WV 26501
 (Address)
(304) 985-5555 / (304) 985-5557
 (Phone Number) / (Fax Number)
hparsons@dandhengineers.com
 (email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Dieffenbach & Hritz
(Company)

Herbert L. Parsons III Operations Leader
(Authorized Signature) (Representative Name, Title)

Herbert L. Parsons III, PE, PS, Operations Leader
(Printed Name and Title of Authorized Representative)

9/10/2020
(Date)

(304) 985-5555 / (304) 985-5557
(Phone Number) (Fax Number)

**ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:**

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Dieffenbach & Hritz
Company

Walter L. P...
Authorized Signature

9/10/2020
Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.



DIEFFENBAUCH & HRITZ

DIEFFENBAUCH & HRITZ, LLC
1095 Chaplin Road Suite 200
Morgantown, WV 26501
Office: 304-985-5555
Fax: 304-985-5557

September 10, 2020

Mr. Guy Nisbet
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

**RE: EOI – WV DEP Kempton Refuse Rehabilitation Project
CEOI 0313 DEP210000002**

Dear Mr. Nisbet:

Dieffenbauch & Hritz is pleased to submit our qualification to perform design services in reference to the EOI – WV DEP Kempton Refuse Rehabilitation Project located in Tucker County, West Virginia. As outlined in our proposal, D&H and its personnel have completed work on several similar projects.

The project will be managed out of our Morgantown, West Virginia office. D&H has several design teams which is more than capable of handling this project (teams consisting of CAD Professionals, Engineers, West Virginia registered engineers and West Virginia registered surveyors) in our office. D&H has several CAD Professionals and Engineers to help support the project in other offices if needed.

Our experienced team is led by Mr. Herbert L. Parsons, III, PE, PS. Mr. Parsons has more than 20 years of related engineering experience and has managed or supported numerous projects for the WVDEP. Mr. Parsons is a registered Professional Engineer and a registered Professional Surveyor in the State of West Virginia. He will be joined by Mr. Michael D. Hritz, PE also a registered Professional Engineer in the State of West Virginia. Mr. Hritz will serve as a project advisor and has managed and supported numerous projects for the WVDEP.

We greatly appreciate this opportunity to provide this proposal and look forward to answering any questions you may have. If you should require any additional information, please contact Mr. parsons at (304) 985-5555.

Sincerely,

Mr. Herbert L. Parsons, III, PE, PS
Project Manager

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ATTACHMENT A: CONSULTANT QUESTIONNAIRE

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment "A"

PROJECT NAME Kempton Refuse Rehabilitation Project		DATE (DAY, MONTH, YEAR) 10, September, 2020	FEIN 65-1257247
1. FIRM NAME Dieffenbauch & Hritz LLC		2. HOME OFFICE BUSINESS ADDRESS 1095 Chaplin Road, Suite 200, Morgantown, WV 26501	3. FORMER FIRM NAME
3. HOME OFFICE TELEPHONE (304)985-5555	5. ESTABLISHED (YEAR) 2005	6. TYPE OWNERSHIP Corporation	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) NO
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 1095 Chaplin Road, Suite 200, Morgantown, WV 26501 / (304) 985-5555 / Michael D. Hritz, PE / (13 AML design personnel - 9 Design Engineers and 4 CADD Professionals)			
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Mr. Michael D. Hritz, PE - President Mr. John C. Dieffenbauch, PE - Vice President Mr. Herbert L. Parsons III, PE, PS - Operations Leader		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS Mr. Roman C. Lawson, PE - Senior Engineering Manager Mr. Eric N. Stewart, PE - Senior Engineering Manager	
9. PERSONNEL BY DISCIPLINE			
3 ADMINISTRATIVE — ARCHITECTS 5 BIOLOGIST 13 CADD OPERATORS — CHEMICAL ENGINEERS 11 CIVIL ENGINEERS 5 CONSTRUCTION INSPECTORS 9 DESIGNERS 4 DRAFTSMAN	5 ECOLOGISTS — ECONOMISTS — ELECTRICAL ENGINEERS 5 ENVIRONMENTALISTS 7 ESTIMATORS 1 GEOLOGISTS — HISTORIANS — HYDROLOGISTS	1 LANDSCAPE ARCHITECTS 2 MECHANICAL ENGINEERS 2 MINING ENGINEERS 2 PHOTOGRAMMETRISTS — PLANNERS: URBAN/REGIONAL — SANITARY ENGINEERS — SOILS ENGINEERS — SPECIFICATION — WRITERS	— STRUCTURAL ENGINEERS 8 SURVEYORS — TRAFFIC ENGINEERS — OTHER 51 TOTAL PERSONNEL
<p>TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>4</u></p> <p>*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.</p>			
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input type="checkbox"/> NO			

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

<p>NAME AND ADDRESS: Arm Services, LLC 317 Cleveland Avenue Fairmont, WV 26554</p>	<p>SPECIALTY: Mining & Environmental Permitting and Consulting; Mine Reclamation and Water Treatment</p>	<p>WORKED WITH BEFORE</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: NGE 650 MacCorkle Avenue West St. Albans, WV 25177</p>	<p>SPECIALTY: Geotechnical Engineers</p>	<p>WORKED WITH BEFORE</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Pace Analytical Westover Laboratory 16 Commerce Drive Westover, WV 26501</p>	<p>SPECIALTY: Laboratory Analysis (Water)</p>	<p>WORKED WITH BEFORE</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Sturm Environmental Services, INC Brushy Fork Road Bridgeport, WV 26330</p>	<p>SPECIALTY: Laboratory Analysis (Water & Soil)</p>	<p>WORKED WITH BEFORE</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Mineral Labs, INC 309 Parkway Drive Salyersville, KY 41465</p>	<p>SPECIALTY: Laboratory Analysis (Coal)</p>	<p>WORKED WITH BEFORE</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Test Boring services, INC 181 Beagle Club Road Washington, PA 15301</p>	<p>SPECIALTY: Drilling</p>	<p>WORKED WITH BEFORE</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: L.J. Hughes & Sons, INC 320 Turnpike Road Summersville, WV 26651</p>	<p>SPECIALTY: Drilling</p>	<p>WORKED WITH BEFORE</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Hamon Core Drilling, Inc P.O. Box 366 Craigsville, WV 26205</p>	<p>SPECIALTY: Drilling</p>	<p>WORKED WITH BEFORE</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>

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

YES Description and Number of Projects:

Over 100 projects; Significant design and implementation experience laying out Surface & Deep Mines, Slurry Impoundments, Refuse Fill Areas, Preparation Plants, and Drainage control and water treatment facilities

B. Is your firm experienced in Soil Analysis?

NO Description and Number of Projects:

All Soil Analysis work is subcontracted to NGE

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects:

Over 100 projects; Storm Water Runoff Analysis, Sediment Pond and Impoundment facilities, Selenium Treatment Facilities

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

YES Description and Number of Projects:

D&H has over 180 projects that utilized Aerial Photography and Contour Mapping.

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

YES Description and Number of Projects:

Over 100 projects; Participated and Managed design of hundreds of miles of waterlines for municipalities in multiple states

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

YES Description and Number of Projects:

2 projects; Designed treatment facilities and solutions for the Chicopee Coal Company permits near Jodie, WV and the Cheyenne Project near Hodgesville, WV for WVDEPs Office of Special Reclamation

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Michael D. Hritz, PE - President	0	20+	20+

Brief Explanation of Responsibilities

Mr. Hritz has over 20 years of experience in the civil and environmental engineering field. Mr. Hritz has accumulated a broad range of experience in the regulatory, planning, well permitting, location construction, drilling, completing and production phases of the oil & gas industry in the Marcellus Shale. Also, through his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources and commercial site development fields in OH, PA, VA, and WV. Mr. Hritz is responsible for overseeing and assuring the quality of all deliverables and management practices of all disciplines. Mr. Hritz is assigned professional charge on many projects for the engineering and survey departments.

EDUCATION (Degree, Year, Specialization)
 BS, 1991, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Marcellus Shale Coalition (MSC)	Professional Engineer, 1997, Pennsylvania
West Virginia Natural Gas Association (WVONGA)	Professional Engineer, 1999, West Virginia
Pennsylvania Independent Oil and Gas Association (PIOGA)	Professional Engineer, 2013, North Carolina
	Professional Engineer, 2015, Ohio

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. John C. Dieffenbach, PE - Vice President	0	20+	0

Brief Explanation of Responsibilities

Mr. Dieffenbach has over 20 years of civil engineering and highway design experience in Virginia, West Virginia, Maryland, Ohio, and Pennsylvania. He successfully managed the design for the first ever coal synergy project, King Coal Highway, in Southern West Virginia. This was an 11-mile section of 4-lane divided highway that was built by a coal company using incidental coal as a means for offsetting construction costs. Mr. Dieffenbach used his knowledge, along with his extensive VDOT experience, to assist in the development of Coalfields Expressway in Southwest Virginia.

EDUCATION (Degree, Year, Specialization)
 BS, 1992, Civil Engineering
 MBA, 2005, Business Administration

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 1999, Virginia
	Professional Engineer, 2000, West Virginia
	Professional Engineer, 2009, Pennsylvania
	Professional Engineer, 2010, Ohio
	Professional Engineer, 2014, North Carolina

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Herbert L. Parsons, III, PE, PS Operations Leader	5	20+	10+

Brief Explanation of Responsibilities

Mr. Parsons has accumulated more than 20 years of project management experience in civil engineering and surveying. As a senior Project Manager, he has developed a broad experience base and extensive project development with public and private sector clients. He has lead teams on complex projects that require coordination of disciplines, technical studies, environmental permitting and multiple agencies and stakeholders. Specific areas of engineering design and surveying include, renewable energy, conventional energy, road design, utilities, hydrologic and hydraulic studies, commercial and residential site planning, erosion and sediment control plans and permit documents. Mr. Parsons is responsible for overseeing and assuring the quality of all deliverables and management practices of all disciplines. Mr. parsons is the Department Leader of the Survey Department and oversees its day to day operations as well as its overall responsible charge. Mr. Parsons has a QC role with engineering department as an independent reviewer and has responsible charge and signature responsibilities for several clients and scopes or work in multiple states.

EDUCATION (Degree, Year, Specialization)
 BS, 1994, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Marcellus Shale Coalition (MSC)	Professional Engineer, 1999, Virginia
West Virginia Natural Gas Association (WVONGA)	Professional Engineer, 2002, West Virginia
Pennsylvania Independent Oil and Gas Association (PIOGA)	Professional Engineer, 2002, Pennsylvania
West Virginia Society of Professional Surveyors (WVSPS)	Professional Engineer, 2020, Ohio
	Professional Surveyor, 2007, Virginia
	Professional Surveyor, 2013, North Carolina
	Professional Surveyor, 2015, Pennsylvania
	Professional Surveyor, 2017, West Virginia

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Roman C. Lawson, PE, MS - Senior Engineering Manager	0	18+	0

Brief Explanation of Responsibilities

Mr. Lawson has over 18 years of experience in the civil and environmental engineering field. During that time, he has served as Engineering Manager, managed surface mining operations and construction services and performed structural design of highway bridges for the West Virginia Division of Highways. Mr. Lawson has accumulated a broad range of experience in the regulatory, planning, well permitting, location construction, site development and overall management phases of the oil & gas industry in the Marcellus and Utica Shale. Also, through his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources, construction management and commercial site development fields in OH, PA, VA, and WV.

EDUCATION (Degree, Year, Specialization)

BS, 2007, Civil Engineering Technology
MS, 2011, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Engineer, 2007, Virginia
Professional Engineer, 2009, West Virginia
Professional Engineer, 2010, North Carolina

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Eric N. Stewart, PE - Senior Engineering Manager	0	16	10

Brief Explanation of Responsibilities

Mr. Stewart has over 15 years of experience in the civil and environmental engineering field. He has accumulated a broad range of experience in the regulatory, planning, well permitting, location construction, pipeline, and midstream facility of the oil & gas industry in the Marcellus and Utica Shale. Also, through his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources and commercial site development fields in OH, PA and WV. Mr. Stewart is responsible for all aspects of engineering and design. He coordinates procedures as well as works closely with clients and regulatory agencies to ensure the company is at the forefront of design and regulatory adherence. Mr. Stewart is also assigned professional charge on many projects for engineering and construction management departments.

EDUCATION (Degree, Year, Specialization)

BS, 2003, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Marcellus Shale Coalition (MSC)
West Virginia Natural Gas Association (WVONGA)
Pennsylvania Independent Oil and Gas Association (PIOGA)

REGISTRATION (Type, Year, State)

Professional Engineer, 2008, West Virginia
Professional Engineer, 2018, Pennsylvania
Professional Engineer, 2018, Ohio

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Vincent J. Attardi, MS - Environmental Service Leader	4	39+	0

Brief Explanation of Responsibilities

Mr. Attardi has over 39 years of experience conducting environmental and ecological investigations throughout the eastern United States. During the course of his career, he has held positions in the government, academic, and private sectors and has founded three ecological consulting firms. He is an aquatic ecologist by training and a leading expert in project permitting under Sections 404 and 401 of the Clean Water Act (CWA). He is proficient in wetland and stream services (delineation, mitigation, restoration, permitting), endangered species habitat assessments, botanical surveys, soil assessments, aerial photo interpretation, NEPA documents, natural resource management plans, and other natural resource investigations. Mr. Attardi is responsible for the development and management of program and personnel that comprises the entirety of Environmental Services offered to clients and in support of Engineering and Construction Service Sectors. Key roles include, development and implementation of the quality assurance program, development of standard operating procedures, scheduling, technical expertise, technical mentoring, personnel management, budgeting, project management, and business development.

EDUCATION (Degree, Year, Specialization)

BS, 1981, Marine Science / Biology
MS, 1992, Biology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Society of Wetland Scientists
Pennsylvania Association of Sewage Enforcement Officers
West Virginia Natural Gas Association Environmental Committee

REGISTRATION (Type, Year, State)

Sewage Enforcement Officer, 2015, Pennsylvania
Certified Erosion Prevention & Sediment Control Inspector, 2016, South Carolina

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Robyn E. Smith - Construction Services Manager	0	30+	0

Brief Explanation of Responsibilities

Mr. Smith has over 30 years of experience in the civil, mining, and construction management fields. He has accumulated a broad range of experience in regulatory, planning, design, geotechnical and construction management phases of transportation, mining, environmental compliance, water resources, and commercial site development projects. Mr. Smith has managed our Construction Services group which provides construction observation, certification and routine regulatory monitoring services for natural gas well sites, above ground storage facilities, centralized impoundments, pipelines, and metering facilities for various natural gas companies at locations throughout Pennsylvania, Ohio and West Virginia.

EDUCATION (Degree, Year, Specialization)
BS, 1984, Mining Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
Marcellus Shale Coalition (MSC)
Radiation Safety Officer

REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Shawn D. Hornsby - Project Engineer II	0	10+	0

Brief Explanation of Responsibilities

Mr. Hornsby has over 10 years of experience in the civil, mining, oil & gas, and site construction fields. Mr. Hornsby has accumulated a broad range of experience in the regulatory, planning, site construction, inspection & testing, in many phases of the oil & gas industry in the Utica and Marcellus Shale. Mr. Hornsby has 3 years' experience in construction and underground operations associated with the mining industry. As well as 7 years' experience in layout of erosion and sediment controls, site design and regulatory compliance with the oil & gas industry. Also, throughout his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources, geotechnical and commercial site development fields in OH, PA, and WV.

EDUCATION (Degree, Year, Specialization)
BS, 2010, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mrs. April M. Brummage - Environmental Scientist I	0	10	0

Brief Explanation of Responsibilities

Mrs. Brummage assists field investigations, data collection, and permit application preparation. Mrs. Brummage's experience includes environmental inspections, post-construction inspections, stormwater BMPs, SWPPs, Wetland delineation according to the U.S. Army Corps of Engineers Wetland Delineation Manual and regional supplements, and stream assessments.

EDUCATION (Degree, Year, Specialization)
BS, 2010, Environmental Studies

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

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NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Michael E. Gray - UAS Pilot / Project Engineer II	0	25+	1

Brief Explanation of Responsibilities

Mr. Gray has accumulated more than 25 years of design and drafting experience in civil engineering and mining engineering. Specific areas of engineering design and drafting include permitting of pipelines and well pads, assist Survey department in deed matrix and field surveying of well pads and boundaries, Remote Pilot in Command of UAS (Unmanned Aerial System) team, Fly well pads to produce pre-construction, construction phases, As-built maps, updated aerial imagery, video and volumetric calculations, fly Mining sites to produce updated imagery, topography and stockpile volumetric calculations. General responsibilities include developing UAV department, Well Pad design, Pipeline permitting, As-built survey and As-built inspections and GIS support of Engineering, Environmental and Survey departments, and PCSM Notice of Termination (NOT) volumetrics and reporting inadequacies to client.

EDUCATION (Degree, Year, Specialization)
BS, 2013, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	UAS Remote Pilot, 2016, USA UAS Commercial Operator, 2018, North Carolina

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Stacy A, Carpenter - Project Surveyor	6	19+	0

Brief Explanation of Responsibilities

Mr. Carpenter has accumulated more than 19 years of survey experience. As a Survey Crew Leader, he has performed duties as needed from preliminary surveying for topographical needs for site development and design, layout of highways per design, layout and grading of sites for Federal Prisons, multiple AML projects for design and reclamation, multiple Oils and Gas drilling sites for design and construction, and multiple Oil and Gas pipelines for design, construction and As-built. As a Survey Coordinator, Mr. Carpenter has managed multiple survey crews for scheduling, guidance in surveying well sites and multiple pipelines for design, stakeout and As-built. Preparing packages for field work to be done, answering any questions that the crews may have and post processing data after the work is completed, He has also taken on a role of communications with the clients, client leaders and subcontractors to assure that the projects are being completed accurately, efficiently and in a timely manner.

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Mark W. Isabell - Owner/Manager (Arm Services, LLC)	0	15+	0

Brief Explanation of Responsibilities

Mr. Isabell has accumulated more than 15 years of Mine Permitting and design experience. He has specialized in SMCRA and NPDES permitting, Surface Mine Operations management, planning and design, environmental quality control for coal mining operations, regulatory liaison for coal mining operations, surface and underground mine reclamation, and direction and oversight of environmental audits. Mr. Isabell served as a project manager for several coal mining clients to manage permitting and environmental compliance issues and applications, WVDEP, PADEP, and DMLR liaison, completed and submitted all required permitting applications.

EDUCATION (Degree, Year, Specialization)
 BS, 2007, Civil Engineering

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

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. John R. Spencer - Owner/Manager (Arm Services, LLC)	0	30+	0

Brief Explanation of Responsibilities

Mr. Spencer has accumulated more than 30 years of Mine Engineering and related experience. He has specialized in mineral operations/land evaluation and management, coal sales and procurement/contract negotiation, mineral operations/land analysis and acquisition, permitting activities with all governmental agencies for coal and quarry projects, and environmental audits and compliance, development and implementation of safety programs and management system auditing.

EDUCATION (Degree, Year, Specialization)
 BS, 1978, Mineral Processing Engineering
 MS, 1979, Mineral Processing Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS West Virginia Coal Mining Institute West Virginia Land and Mineral Owner's Association	REGISTRATION (Type, Year, State)

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mr. Coy A. Spencer - Owner/Manager (Arm Services, LLC)	0	15+	0

Brief Explanation of Responsibilities

Mr. Spencer has accumulated more than 15 years of Water quality management and Mine Permitting experience. He has specialized in Water quality, Storm Water, NPDES, Fish Identification and Benthic Macroinvertebrates. Mr. Spencer is responsible for water chemistry sampling, benthic macroinvertebrate sampling, fisheries collection, habitat assessment, report preparation and finalization. Collected and identified fish, benthics, and water chemistry samples relative to ecosystem recovery following spill events. He has conducted seston and periphyton studies, as well as dissolved oxygen studies utilizing sondes such as Hydrolab and YSI or other data logging equipment. Mr. Spencer has prepared data management and quality assurance/quality control plans, performed database design, data interpretation, data validation, and statistical analysis to obtain, determine, and compile available benthic data collected.

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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

Autodesk AEC Software (AutoCAD Map 2020, Civil 3D 2020)

Carlson Software

Microstation V8i Select Series 4

Inroads Select Series 2

Hydrocad

HY8

ESRI Arcmap 10.5

Trimble Business Center

Trimble Path Finder Office

Nitro PDF Creator

Microsoft Office Software

Pix4D

UGCS

Trimble R-6 GPS

Trimble R-8 GPS

Trimble R-10 GPS

Trimble S5 Robotic Total Station

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

Trimble S6 Robotic Total Station

Nicon Total Stations

Topcon Total Stations

Leica Total Stations

Sensefly eBee Plus Fixed Wing UAV

DJI Inspire 2 Multicopter UAV

Parrot Anafi Multicopter UAV

Trimble Geoexplorer GPS

Water Depth Gauge

Flow Meter

Water Quality Meters

Infiltrometer

Troxler 3400 series Nuclear Density Gauges

AMD Treat 5.0 Plus

Ream Slop Stability

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
RHL89 Well PAD Natural Gas Well Site Near Graysville Greene County, Pennsylvania	CNX Gas Company LLC 1000 Consol Energy Drive Canonsburg, PA 15317	Engineering Design, Permitting, Environmental & Surveying	\$700,000	20%
EQT WV Waterline System Waterline Project Marion & Wetzel County, West Virginia	EQT Production 400 Woodcliff Drive Canonsburg, PA 15317	Engineering Design, Permitting & Surveying	\$16 Million	75% Design
Hampshire Gas Pipeline Replacement Natural Gas Pipeline Near Romney Hampshire County, West Virginia	Hampshire Gas 114 Hampshire Gas Dr. Romney, WV 26757	Surveying & Mapping	Unknown	40%
Falcon Land AML Project Near Fenwick Nicholas County, West Virginia	A.J. Burke P.O. Box 118 Horner, WV 26372	Surveying	Unknown	40%
Mashey Gap Quarry Stone Quarry Near Elkins Randolph County, West Virginia	J.F. Allen Company P.O. Box 2049 Buckhannon, WV 26201	Surveying & UAV Mapping	Unknown	Unknown
Purdy Run Aggregates Stone Quarry Near Adamsville Harrison County, West Virginia	KCS Contracting, LLC P.O. Box 741 Kermit, WV 25674	Surveying & UAV Mapping	Unknown	Unknown
NV13 Well Pad Slip Repair Near Nineveh Greene County, Pennsylvania	CNX Gas Company LLC 1000 Consol Energy Drive Canonsburg, PA 15317	Engineering Design, Permitting, Environmental & Surveying	\$700,000	85%
TOTAL NUMBER OF PROJECTS: 7 (Dieffenbauch & Hritz are currently working on several projects in multiple states - For the purpose of the EOI, only a sample of our recent projects are listed)		TOTAL ESTIMATED CONSTRUCTION COSTS: \$		

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD (ARM Services, LLC)				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Humphrey Impoundment and Refuse Area Near Maidsville Monongalia County, West Virginia	LP Mineral, LLC 317 Cleveland Avenue Fairmont, WV 26554	\$10,000,000.00	2018-2020	Yes
Barrackville Refuse Area and Surface Mine Near Barrackville Marion County, West Virginia	American Bituminous Power Partners, LP. 228 ABPP Drive Grant Town, WV 26574	\$5,000,000.00	2018-Current	Yes
Grant Town Refuse Area and Power Plant Near Grant Town Marion County, West Virginia	American Bituminous Power Partners, LP. 228 ABPP Drive Grant Town, WV 26574	\$5,000,000.00	2018-Current	Yes
Farmington Refuse Area Near Farmington Marion County, West Virginia	American Bituminous Power Partners, LP. 228 ABPP Drive Grant Town, WV 26574	\$1,000,000.00	2018-Current	Yes
Williams No. 2 Refuse Area Near Enterprise Harrison County, West Virginia	Coal Valley, LLC 800 Lincoln Avenue Grove City, PA 16127	\$350,000.00	2018-Current	Yes
Bailey Subsidence Stream Survey Near Aleppo Greene County, Pennsylvania	Consol Energy, INC 1000 Consol Energy Drive Canonsburg, PA 15317	Unknown	2017	N/A
Valley Mining AML Near Cheat Lake Monongalia County, West Virginia	A.J. Burke P.O. Box 118 Horner, WV 26372	\$370,000	2020	Yes
Grand Well Site Natural Gas Well Site Near Middlebourne Tyler County, West Virginia	Antero Resources Corporation 5335 White Oak BLVD Bridgeport, WV 29330	Unknown	2020	No

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Roberts Hill Road Upgrade Road Improvement Project Near Middlebourne Tyler County, West Virginia	Antero Resources Corporation 5335 White Oak BLVD Bridgeport, WV 29330	Unknown	2020	No
Dry Ridge Compressor Pad Natural Gas Facility Near Cameron Marshall County, West Virginia	CNX Midstream Operating Company LLC 1000 Consol Energy Drive Canonsburg, PA 15317	Unknown	2020	No
WDTN19 Well Site Natural Gas Well Site Near Wadestown Monongalia County, West Virginia	CNX Gas Company LLC 1000 Consol Energy Drive Canonsburg, PA 15317	Unknown	2020	Yes
Upper Deckers Creek Dam Rehabilitation Near Reedsville Preston County, West Virginia	Triton Construction, Inc 47443 National Road, Suite 3 St. Clairsville, Ohio 43950	Unknown	2020	Yes
DTE Slip Projects Harrison, Doddridge, Lewis and Braxton counties, West Virginia	DTE Midstream 1000 Noble Energy Drive., 5 th Floor Canonsburg, PA 15317	Unknown	2020	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Barrackville Surface Mine Barrackville, West Virginia	American Bituminous Power Partners, L.P. 228 ABPP Drive Grant Town, WV 26574	\$5,000	2019	NO	Arm Services, LLC
PA Legacy Site Operations Flight Mapping Pennsylvania	Consol Energy, LLC 1000 Consol Energy Drive Canonsburg, PA 15317	\$40,000	2019	Yes	Arm Services, LLC
Martinka Complex Flight Mapping Colfax, West Virginia	ERP Environmental Fund LLC P.O. Box 305 Madison, WV 25130	\$5,000	2019	Yes	Arm Services, LLC
Commodore UAV Mapping Commodore, Pennsylvania	Natural Resource Partners, LLC 5260 Irwin Road Huntington, WV 25705	\$5,000	2017	Yes	WPP, LLC
A&G Job #4 UAV Mapping	ACIN, LLC 5260 Irwin Road Huntington, WV 25705	\$5,000	2019	No	WPP, LLC
Rockingham Quarry UAV Mapping Rockingham, North Carolina	BRP, LLC 5260 Irwin Road Huntington, WV 25705	\$7,500	2018	No	WPP, LLC

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

20. The foregoing is a statement of facts.

Signature: 

Title: Operations Leader

Date: 9/10/2020

Printed Name: Herbert L. Parsons, III, PE, PS

**ATTACHMENT B: AML RELATED PROJECT
EXPERIENCE MATRIX**

AML and RELATED PROJECT EXPERIENCE MATRIX																						
PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS															PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional				
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Michael D. Hritz, PE	Herbet L. Parsons III, PE, PLS	Roman C. Lawson, PE	Eric N. Stewart, PE	Robyn E. Smith
Stream Surveys	C			x					X												C	C
Holding Pond Treatment	C												X		X							P
Water Sampling Collection	C			x									X		X							P
Stream Restoration and Monitoring	C & P						X									X						M & P
WVDEP AML - Saul's Run Landslide	P						X										X				P	
WVDEP AML - Tubs Run Highwall and Refuse Phase I	P		X				X										X				P	
WVDEP AML - Sandy Run Highwall and Portals	P		X	X	X	X											X				P	
WVDEP AML - Pageton Portals	P					X	X										X				P	
WVDEP AML - Hampton No. Four Maintenance	P						X										X				P	
WVDEP AML - Church Creek/Manown Highwall	P		X				X										X				P	
AMBIT - Barrackville Surface Mine and Refuse Area	C & P						X	X						X	X	X						P
Consol - PA Legacy Operations	C & P						X						X	X	X							P
ERP - Martinka Complex	C & P												X	X	X	X						P
EQT - Tuna Nut Well Pad	P	See Below								X				X								P
EQT - Haymaker Well Pad	P	See Below								X				X								P
EQT - Taco Cat Well Pad	P	See Below								X				X								P

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

Attachment "B"

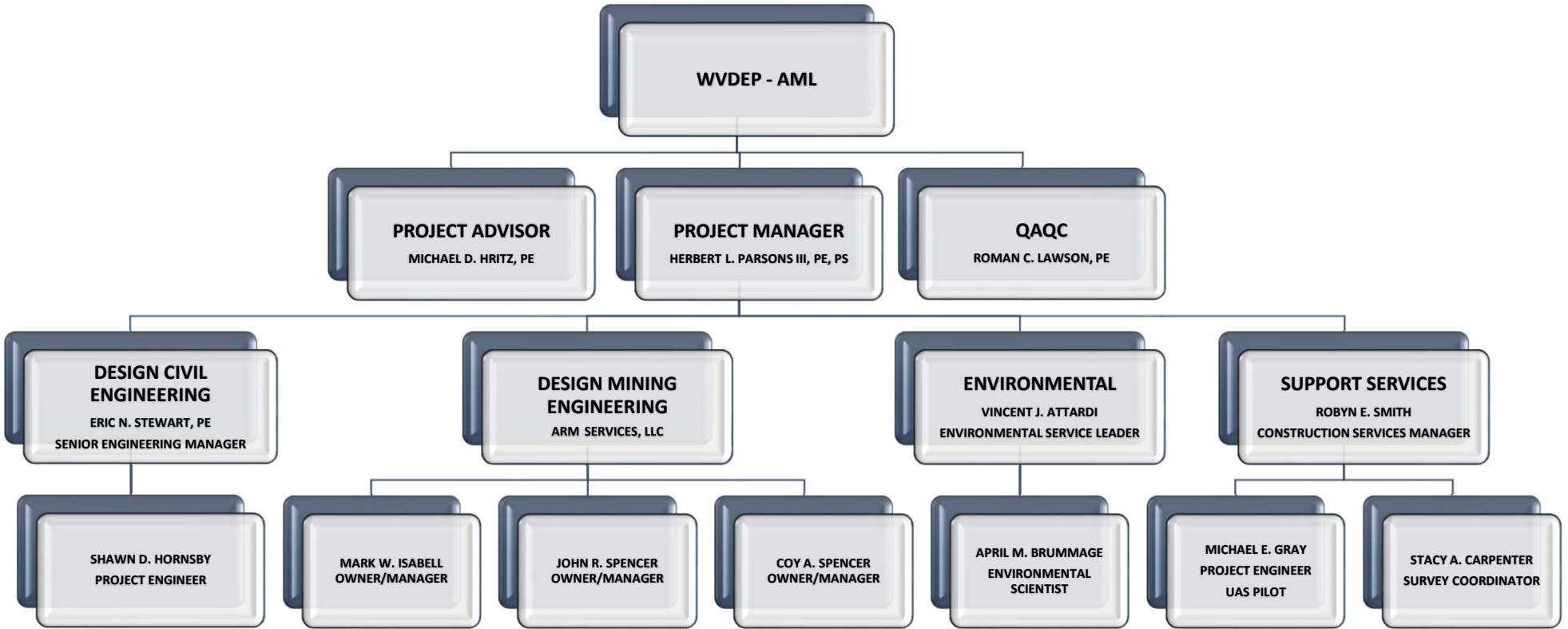
Tuna Nut Subsidence investigation during longwall mining operations beneath well pad and access road.
 Haymaker Subsidence investigation during longwall mining operations beneath well pad and access road.
 Taco Cat Subsidence investigation during longwall mining operations beneath well pad and access road.

AML and RELATED PROJECT EXPERIENCE MATRIX **ARM SERVICES, LLC**

PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS															PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional					
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Mark Isabell	John Spencer, Jr.	Coy Spencer			
Humphrey Impoundment and Refuse Area	C & P					X	X		X		X	X	X	X			M & P	M & P	M & P				
Barrackville Refuse Area and Surface Mine	C & P				X	X		X		X	X	X	X	X			M & P	M & P	M & P				
Grant Town Refuse Area and Power Plant	C & P				X	X		X		X	X	X	X	X			M & P	M & P	M & P				
Farmington Refuse Area	C & P				X	X		X		X	X	X	X	X			M & P	M & P	M & P				
Williams No. 2 Refuse Area	C & P				X	X		X		X	X	X	X	X			M & P						

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

ATTACHMENT C: RESUMES





Mr. Hritz has over 20 years of experience in the civil and environmental engineering field. During that time, he has served as co-owner of Dieffenbach & Hritz, LLC; Regulatory, Construction and Water Resources Manager for Chief Oil & Gas LLC and Manager at Gannett Fleming, Inc. Mr. Hritz has accumulated a broad range of experience in the regulatory, planning, well permitting, location construction, drilling, completing and production phases of the oil & gas industry in the Marcellus Shale. Also through his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources and commercial site development fields in OH, PA, VA, and WV.

Company Role, Quality Assurance Quality Control:

Responsible for overseeing and assuring the quality of all deliverables and management practices of all disciplines. This includes overseeing critical events, attending client or stockholder meetings. As well as participating in kick-off and milestone meetings, preparing quality control plans and assuring project and client performance.

Project Role, Professional Charge: Mr. Hritz is assigned professional charge on many projects for the engineering and survey departments. A critical key to quality control includes redundant professional reviews. D&H has a Client Leader in charge of projects and a designated Professional will provide independent review of each deliverable. This process assures unbiased results and quality deliverables. Professional charge assignments include permitting, engineering and survey deliverables for a variety of projects.

Experience Prior to Dieffenbach & Hritz, LLC:

Chief Oil & Gas
2009– 2012
Title: Regulatory, Construction and Water Resources Manager

Dieffenbach & Hritz, LLC
2005 - 2009
Title: President/ Co-Owner

Manager, Gannett Fleming, Inc
1993 – 2005
Title: Project Engineer through Regional Office

**DETAILS AND
ACHIEVEMENTS**

Experience

Total: >20 years
With D&H: >13 years
(Founder 2005)

Education:

B.S., Civil Engineering,
The Pennsylvania State
University – 1991

**PROFESSIONAL
REGISTRATION(S):**

1997/PE, PA
1999/PE, WV
2013/PE, NC
2015/PE, OH

**CORPORATE
AFFILIATIONS:**

Marcellus Shale Coalition
(MSC)

West Virginia Natural Gas
Association (WVONGA)

Pennsylvania Independent
Oil and Gas Association
(PIOGA)

Mr. Parsons has accumulated more than 20 years of project management experience in civil engineering and surveying. As a Senior Project Manager, he has developed a broad experience base and extensive project development with public and private sector Clients. He has lead teams on complex projects that require coordination of disciplines, technical studies, environmental permitting, and multiple agencies and stakeholders. Specific areas of engineering design and surveying include, renewable energy, conventional energy, road design, utilities, hydrologic and hydraulic studies, commercial and residential site planning, erosion and sediment control plans and permit documents.

Quality Assurance Quality Control:

Mr. Parsons is responsible for overseeing and assuring the quality of all deliverables and management practices of all disciplines. This includes overseeing critical events, establishing program protocols, attending client or stockholder meetings, participating in kick-off and milestone meetings, preparing project specific quality control plans and project execution plans. In addition, Mr. Parsons is the Department Leader for the Survey Department and oversees its day to day operations as well as its overall responsible charge. Finally, Mr. parsons has a QC role with engineering department as an independent reviewer and has responsible charge and signature responsibilities for several clients and scopes of work in multiple states.

Technical Competency

- Water Resources (H & H Studies)
- Impoundment Design
- Storm Sewer System
- Storm Water Management
- Water Quality Control (BMP)
- Utility Systems
- Road Design
- Erosion and Sediment Control / NPDES
- Survey Expertise
 - Boundary Survey
 - ALTA / As-built Surveys
 - Aerial Control and Mapping
 - Obstruction Surveys
 - Construction Stakeout
 - Topographic Mapping

DETAILS AND ACHIEVEMENTS

Experience

Total: 25 years
With D&H: Eight Years

Education:

Virginia Military Institute
BS, Civil Engineering 1994

Safety Training

Safeland (PEC)
OSHA 10
RigPass

PROFESSIONAL REGISTRATION(S):

Professional Surveyor

WV # [REDACTED] (2017)
VA # [REDACTED] (2007)
PA # [REDACTED] (2015)
NC # [REDACTED] (2013)

Professional Engineer

WV # [REDACTED] (2002)
VA # [REDACTED] (1999)
PA # [REDACTED] 1 (2003)
OH# [REDACTED] (2020)

CORPORATE AFFILIATIONS:

Marcellus Shale Coalition
West Virginia Natural Gas Association (WVONGA)
Pennsylvania Independent Oil and Gas Association (PIOGA)

Mr. Lawson has over 18 years of experience in the civil and environmental engineering field. During that time, he has served as Engineering Manager for Dieffenbach & Hritz, managed surface mining operations and construction services for Alpha Natural Resources and performed structural design of highway bridges for the West Virginia Division of Highways. Mr. Lawson has accumulated a broad range of experience in the regulatory, planning, well permitting, location construction, site development and overall management phases of the oil & gas industry in the Marcellus and Utica Shale. Also, through his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources, construction management and commercial site development fields in OH, PA, VA, and WV.

Summary of Projects:

Coalfields Expressway, Hawksnest Section, Buchanan County, VA, VDOT. Engineering/Construction Manager in charge of the design and construction of the 2-mile, four lane, "Hawksnest" section of the Coalfields Expressway in Buchanan County, VA.

Coalfields Expressway Feasibility Study, Southwest Virginia, VDOT. Engineering/Construction Manager in charge for the preparation of a Feasibility Study for a 30-mile section of the 50-mile CFX corridor which included a detailed analysis of coal reserves located along the corridor.

Coalfields Expressway, Southwest Virginia, VDOT. Engineering/Construction Manager in charge of the Preliminary Design for the Pound Connector and Doe Branch sections of the 50-mile corridor, which included a detailed coal reserve analysis and material handling plan.

Coalfields Expressway, Southwest Virginia, VDOT. Engineering/Construction Manager in charge of the Preliminary Design for the 2-mile Kiwanis Park section of the 50-mile corridor, which included a detailed coal reserve analysis and material handling plan.

Breaks Regional Airport, Buchanan County, VA, Buchanan County Industrial Development Authority. Engineering/Construction Manager of a multi-phased Post Mining Land Use feasibility study for the development of an approximately 500 acre airport and relocation/widening of 5-miles of roadway.

**DETAILS AND
ACHIEVEMENTS**

Experience

Total: 18 + years
With D&H: 8 Years

Education:

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

M.S., Civil Engineering, Virginia
Tech.

**PROFESSIONAL
REGISTRATION(S):**

Professional Engineer

Virginia - No. [REDACTED]
West Virginia - [REDACTED]
Pennsylvania - [REDACTED]
North Carolina - [REDACTED]

Virginia Class A Contractor

Engineering Manager

Eric N. Stewart, P.E.



DIEFFENBAUCH & HRITZ

Mr. Stewart has over 15 years of experience in the civil and environmental engineering field. During that time, he has served as Engineering Manager for Dieffenbach & Hritz, LLC; Roadway and Special Projects Construction Manager for Antero Resources and Project Manager at Williams. Mr. Stewart has accumulated a broad range of experience in the regulatory, planning, well permitting, location construction, pipeline, and midstream facility of the oil & gas industry in the Marcellus and Utica Shale. Also, through his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources and commercial site development fields in OH, PA, and WV.

Company Role, Engineering Manager:

Responsible for all aspects of engineering and design. He coordinates procedures as well as works closely with clients and regulatory agencies to ensure the company is at the forefront of design and regulatory adherence.

Project Role, Professional Charge: Mr. Stewart is assigned professional charge on many projects for the engineering and construction management departments. A critical key to quality control includes redundant professional reviews. D&H has a Client Leader in charge of projects and a designated Professional will provide independent review of each deliverable. This process assures unbiased results and quality deliverables. Professional charge assignments include permitting, engineering, survey and construction management deliverables for a variety of projects.

Experience Prior to Dieffenbach & Hritz, LLC:

Antero Resources Corporation
2016– 2018
Title: Special Projects & Roadway Construction Manager

Williams Companies, Inc.
2009– 2016
Title: Facilities Engineer/Project Manager/Permitting Manager

Dieffenbach & Hritz, LLC
2005 - 2009
Title: Project Manager

Gannett Fleming, Inc.
2003 – 2005
Title: Associate Engineer

DETAILS AND ACHIEVEMENTS

Experience

Total: 16 years
With D&H: 5 years

Education:

B.S., Civil Engineering,
West Virginia University

PROFESSIONAL REGISTRATION(S):

Professional Engineer
WV [REDACTED]
PA [REDACTED]
OH [REDACTED]

CORPORATE AFFILIATIONS:

Marcellus Shale Coalition
(MSC)

West Virginia Natural Gas
Association (WVONGA)

Pennsylvania Independent
Oil and Gas Association
(PIOGA)

Environmental Services Leader

Vincent J. Attardi, M.S.



DIEFFENBAUCH & HRITZ

Mr. Attardi has over 39 years of experience conducting environmental and ecological investigations throughout the eastern United States. During the course of his career, he has held positions in the government, academic, and private sectors and has founded three ecological consulting firms. He is an aquatic ecologist by training and a leading expert in project permitting under Sections 404 and 401 of the Clean Water Act (CWA). He is proficient in wetland and stream services (delineation, mitigation, restoration, permitting), endangered species habitat assessments, botanical surveys, soil assessments, aerial photo interpretation, NEPA documents, natural resource management plans, and other natural resource investigations.

Project Role, Environmental Coordinator:

In his current position, Mr. Attardi is responsible for the development and management of program and personnel that comprises the entirety of Environmental Services offered to our clients and in support of our Engineering and Construction Service Sectors. Key roles include development and implementation of the quality assurance program, development of standard operating procedures, scheduling, technical expertise, technical mentoring, personnel management, budgeting, project management, and business development.

Summary of Projects:

Mr. Attardi has overseen the environmental investigation and permitting of approximately 150 projects during his time at Dieffenbach & Hritz. These investigations were primarily conducted in support of oil and gas projects.

Experience prior to Dieffenbach & Hritz LLC:

Principal, Wetland Services; Copperhead Environmental Consulting, Inc. [2013 – 2014]

Senior Associate; Stantec [2008 – 2012]

Senior Ecologist, Project Manager; FMSM [2005 – 2008]

Senior Ecologist, President; Ecological Planning Group, LLC [2002 – 2005]

Natural Resources Program Manager; Law Engineering and Environmental Services, Inc. [1999 – 2002]

Natural Resources Program Manager; Ogden Environmental and Energy Services, Inc. [1997 – 1999]

DETAILS AND ACHIEVEMENTS

Experience

Total: 39+ years

With D&H: 4+ Years

Education:

M.S., Biology, Rutgers University, 1992

B.S., Marine Science / Biology, University of Tampa, 1981

Safety Training

Safeland

OSHA 10

First Aid / CPR / Blood

Pathogen

PROFESSIONAL CERTIFICATIONS:

Sewage Enforcement Officer

Pennsylvania – No. [REDACTED] (2015)

Certified Erosion Prevention & Sediment Control Inspector

South Carolina – No. 11804 (2016)

CORPORATE AFFILIATIONS:

Society of Wetland Scientists

Pennsylvania Association of

Sewage Enforcement Officers

WVONGA Environmental

Committee

Construction Services Manager Robyn E. Smith



DIEFFENBAUCH & HRITZ

Mr. Smith has over 30 years of experience in the civil, mining, and construction management fields. He has accumulated a broad range of experience in regulatory, planning, design, geotechnical and construction management phases of transportation, mining, environmental compliance, water resources, and commercial site development projects. Over the past 5 years, Mr. Smith has managed our Construction Services group which provides construction observation, certification and routine regulatory monitoring services for natural gas well sites, above ground storage facilities, centralized impoundments, pipelines, and metering facilities for various natural gas companies at locations throughout Pennsylvania, Ohio and West Virginia.

Project Role, E&S Inspection Services Manager:

Mr. Smith will serve as the Project Manager and point of contact for this project. He will work with our assigned E&S Inspection Coordinator and E&S Inspection Supervisor to ensure the routine and post rainfall event site inspections are completed and the data is compiled and submitted. He will also perform quality assurance and quality control reviews, attend the monthly review meetings, and be in contact with the Project Manager should an item be identified during the inspections that requires immediate attention.

Recent/Relevant Projects:

E&S Inspection Services Manager, Routine E&S Inspections, West Virginia & Pennsylvania. Project Manager responsible for erosion and sediment compliance and post rain inspections for 206 natural gas well sites in multiple counties in West Virginia and Pennsylvania. Duties include oversight of the scheduling of inspectors, rainfall events, review of daily reports, and performing periodic field verifications visits.

E&S Inspection Services Manager, Routine E&S Inspections, Greene County, Pennsylvania. Project Manager responsible for overseeing the routine and post rainfall event E&S inspections and reporting for 47 natural gas well sites located throughout Greene County, PA.

E&S Inspection Services Manager, Routine E&S Inspections, Greene County, Pennsylvania. Project Manager responsible for overseeing the routine and post rainfall event E&S inspections and reporting for approximately 20 miles of natural gas pipeline located throughout Greene County, PA.

DETAILS AND ACHIEVEMENTS

Experience:

Total: 35 years
With D&H: 5 years

Education:

BS, Mining Engineering,
West Virginia Institute of
Technology, 1984

Safety Training:

PEC Training

MSHA US Department of
Labor Certified Surface Mine
Instructor (Code IS)

MSHA US Department of
Labor Certified Underground
Mine Instructor (Code IU)

MSHA US Department of
Labor Certified Impoundment
Inspection Instructor.

WV Certified Surface Mine
Foreman

WV Certified Underground
Mine Foreman

CORPORATE AFFILIATIONS:

Radiation Safety Officer

Project Engineer II Shawn D. Hornsby



DIEFFENBAUCH & HRITZ

Mr. Hornsby has over 10 years of experience in the civil, mining, oil & gas, and site construction fields. Mr. Hornsby has accumulated a broad range of experience in the regulatory, planning, site construction, inspection & testing, in many phases of the oil & gas industry in the Utica and Marcellus Shale. Mr. Hornsby has 3 years' experience in construction and underground operations associated with the mining industry. As well as 7 years' experience in layout of erosion and sediment controls, site design and regulatory compliance with the oil & gas industry. Also, throughout his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources, geotechnical and commercial site development fields in OH, PA, and WV.

Project Role, Project Engineer:

Responsible for the design and permitting activities associated with client's projects. Projects may include but are not limited to oil & gas well pads, fresh and reuse water impoundments, air shaft pad and access road design. Primary role includes; design of oil & gas site development planning and regulatory reporting, including construction permit compliance and as-built review, determining construction sequencing and optimization, and planning, design, permitting, and other permitting and design phase services for water resources, environmental, mining, transportation, and oil and gas services.

Summary of Projects:

Oil & Gas Projects: [2014 – present]

Over the past 6 years, Mr. Hornsby has taken part in the design and permitting for natural gas well sites, gas and water pipelines, above ground storage facilities, centralized impoundments, and metering facilities for various natural gas companies at locations throughout PA, OH and WV.

Experience prior to Dieffenbach & Hritz LLC:

Intern; Engineering & Testing 2000 [2009 - 2009]
Consol Energy – Consolidated Coal Company [2010 – 2012]
Consol Energy – CNX Gas Company [2012 – 2014]

DETAILS AND ACHIEVEMENTS

Experience:

Total: 10 years
With D&H: 6 years

Education:

BS, Civil Engineering
Technology
Bluefield State College, 2010

Safety Training:

OSHA - 40 Hour Safety
Training

WV Certified Underground
Black Hat
WV Certified Surface
Red Hat
VA Certified Underground
Black Hat

Environmental Scientist I

April M. Brummage



DIEFFENBAUCH & HRITZ

Mrs. Brummage is currently an Environmental Scientist I for Dieffenbach & Hritz, LLC (D&H). Mrs. Brummage assists field investigations, data collection, and permit application preparation for D&H projects. Mrs. Brummage's experience includes environmental inspections, post-construction inspections, stormwater BMPs, SWPPs, wetland delineations according to the U.S. Army Corps of Engineers *Wetland Delineation Manual* and regional supplements, and stream assessments.

Project Role, Field of Competence:

- Wetland and Stream delineations
- Erosion and Sedimentation Control Inspections
- Stream Assessment and Monitoring
- PADEP General Permit preparation and review
- Various water sampling methods and procedures
- Phase I Environmental Site Assessments

Summary of Projects:

[July 2018-Present] Mrs. Brummage has delineated many projects for Oil and Gas related customers over her time as an Environmental Scientist I with Dieffenbach & Hritz. Mrs. Brummage has seen these projects through the process of field work and then implementing field findings into various reports that are requested by the client. During her time as a construction inspector she performed weekly inspections on various stages of drilling process.

Experience prior to Dieffenbach & Hritz, LLC:

Construction Inspector, Dieffenbach & Hritz - [2018]
Environmental Resource Technician, Greene County Conservation District – [2016-2018]
Environmental Inspector, Pennoni – [2015-2016]
Environmental Manager, Quality Environmental Services – [2013-2015]
Environmental Scientist I, Wallace and Pancher, Inc. – [2011-2013]

DETAILS AND ACHIEVEMENTS

Experience

Total: 10

With D&H: Two Years

Education:

California University of PA,
BS, Environmental Studies
2010

Safety Training

OSHA 40 Hour Hazwoper
(2016)
Safeland (PEC)
ISONetwork
36 Hour Wetland Delineation
Training (2019)
MSHA 24- Hour Surface Mining
Certification (2016)

Project Engineer II / UAS Remote Pilot

Michael E. Gray



DIEFFENBAUCH & HRITZ

Mr. Gray has accumulated more than 25 years of design and drafting experience in civil engineering and mining engineering. Specific areas of engineering design and drafting include permitting of pipelines and well pads, assist Survey department in deed matrix and field surveying of well pads and boundaries, Remote Pilot in Command of UAS (Unmanned Aerial System) team, Fly well pads to produce pre-construction, construction phases, As-built maps, updated aerial imagery, video and volumetric calculations, fly Mining sites to produce updated imagery, topography and stockpile volumetric calculations. General responsibilities at D&H include developing UAV department, Well Pad design, Pipeline permitting, As-built survey and As-built inspections and GIS support of Engineering, Environmental and Survey departments.

Project Role, Project Engineer II:

Responsible for designing and permitting of Pipelines and well pads, As-built surveys, PCSM Notice of Termination (NOT) volumetrics and reporting inadequacies to client.

Project Role, UAS Remote Pilot:

Responsible for managing, flight planning, acting as primary UAS Pilot in command and project completion for UAS projects.

Summary of Projects:

UAS Projects:

[September 2015 – Present] Mr. Gray has managed over 180 Oil & Gas, Mining & Construction UAS projects in PA, OH, WV, KY & NC.

Experience prior to Dieffenbach & Hritz, LLC:

Engineering Technician/Mining Engineer/ UAS Pilot/ Sr. Environmental Compliance Coordinator, Alpha Natural Resources - [2005 –2015]
Engineering Technician, Bluestone Industries – [2004 – 2005]
Engineering Technician, G.A. Covey Engineering – [2003 – 2004]
Engineering Technician, Britton Engineering – [1998 – 2003]
CAD Technician, McKenzie Engineering – [1995 – 1998]

DETAILS AND ACHIEVEMENTS

Experience

Total: 25 years

With D&H: Five Years

Education:

Bluefield State College,
BS, Civil Engineering
Technology 2013

Safety Training

Safeland (PEC)

ISONetwork

WV Safety Sensitive

PROFESSIONAL REGISTRATION(S):

Remote Pilot

No. [REDACTED]

North Carolina UAS

Commercial Operator

No. [REDACTED]

Public Water System Operator

West Virginia –

No. [REDACTED]

Project Surveyor
Stacy A. Carpenter



DIEFFENBAUCH & HRITZ

Mr. Carpenter has accumulated more than 19 years of survey experience. As a Survey Crew Leader he has performed duties as needed from Preliminary Surveying for topographical needs for site development and design, layout of highways per design, layout and grading of sites for Federal Prisons, Multiple AML projects for Design and Reclamation, multiple Gas and Oil Drilling Sites for design and construction, and multiple Gas and Oil Pipelines for design, construction, and As-built. As a Survey Coordinator Mr. Carpenter has managed multiple survey crews for scheduling, and guidance in surveying Well sites and multiple pipelines for design, stakeout, and As-Built. Preparing packages for field work to be done, answering any questions that the crews may have, and post processing data after the work. He has also taken on a role of communications with the clients, client leaders, and subcontractors to assure that the projects are being completed to the best of our ability.

Working safely and providing quality survey coordination are his major contributions to the survey department.

Project Role, Project Surveyor: Scheduling of multiple crews to multiple projects on a daily basis, doing quality control report of the data collected and checking for proper layout per design, and reviewing daily safety reports.

Summary of Projects:

Mr. Carpenter has overseen over 200 Oil and Gas, Mining & Construction Survey projects in PA, OH, WV, KY, VA, & NC.

Experience prior to Dieffenbach & Hritz, LLC:

Senior Party Chief, Stantec Consulting – [2008-2014]

Party Chief, R. D. Zande and Associates – [2002-2008]

Survey Apprentice, R. D. Zande and Associates – [2000-2002]

**DETAILS AND
ACHIEVEMENTS**

Experience

Total: 19 years

With D&H: 6 ½ Years

Education:

Graduate Buckhannon,

Upshur High School

1989 – 1993

Safety Training

Safeland

RigPass

First Aid-CPR Training

EDUCATION

- B.S. Civil Engineering
West Virginia University Institute of Technology
- A.S. Civil Engineering Technology
West Virginia University Institute of Technology

EMPLOYMENT HISTORY

- 2018-Present ARM Services, LLC
2014-2018 Potesta & Associates, Inc.
2012-2014 Dieffenbach & Hritz, LLC
2009-2012 James C. Justice Companies, Inc.
2008-2009 Massey Energy Company
Northern WV Operations
2005-2008 Summit Engineering, Inc.
2003-2005 Criste Engineering Services
(Summers/Part-Time)

PROFESSIONAL CERTIFICATIONS

- Certified Surface Miner, West Virginia
Certified Surface Miner, Virginia
Impoundment Inspector, Mine Safety and Health
Administration

AREAS OF SPECIALIZATION

SMCRA and NPDES Permitting, Surface Mine Operations management, planning, and design, environmental quality control for coal mining operations, regulatory liaison for coal mining operations, surface and underground mine reclamation, and direction and oversight of environmental audits.

PROFESSIONAL EXPERIENCE

ARM Services, LLC; Potesta & Associates; Dieffenbach & Hritz, LLC

Served as Project Manager for several coal mining clients to manage permitting and environmental compliance issues and applications, WVDEP, PADEP, and DMLR liaison, completed and submitted all required permitting applications. Clients include:

- CONSOL Energy, Inc.
- Alpha Natural Resources
- Targe Energy, Inc.

- American Bituminous Power Partners, L.P.
- LP Mineral, LLC
- ERP Compliant Fuels
- Mission Coal Company
- Lexington Coal Company
- Contura Energy
- Cliffs Natural Resources
- Fola Coal Company, LLC
- MEPCO, LLC
- Patriot Coal Corporation

Alpha Natural Resources/Contura Energy – Directed and led environmental audits of operations in Southern West Virginia, Southeast Virginia, Kentucky, Tennessee, and Pennsylvania.

Served as Project Manager for several quarry mining companies to manage permitting and environmental compliance issues and applications, WVDEP and DMME liaison, completed and submitted all required permitting applications. Clients include:

- Continental Brick Company
- North Mountain Shale, LLC
- U.S. Silica Company
- D.L. Morgan Jr., Inc.
- Lehigh Hanson ECC, Inc
- Appalachian Aggregates, LLC
- Carmeuse Lime Company
- Greer Industries, Inc.

West Virginia Department of Environmental Protection, Special Reclamation, Chicopee Coal Project:

- Limestone bed design for acid mine drainage (AMD) treatment
- Reclamation and grading plans
- Utilization of the AMD treatment program for the analysis of acid neutralization

West View Development – Environmental site assessments, mining reclamation liability assessments of pre-law and current mining areas prior to properties being developed for commercial use for 500-acre tract near Morgantown, West Virginia.

James C. Justice Companies, Inc.

Served as Safety Director responsible for training and compliance with state and federal agencies for employees

and operations in West Virginia, Virginia, Kentucky, and Tennessee.

Served as Chief Engineer responsible for surface and underground mine planning in West Virginia, Virginia, Kentucky, and Tennessee.

Served as Environmental Compliance Manager responsible for compliance with state and federal regulations in West Virginia, Virginia, Kentucky, and Tennessee.

Kentucky Fuel Corporation – Managed operation, maintenance, engineering, planning, environmental compliance, safety, and sales, including 100-person work force, of a 1.2 million ton per year, 1,200-acre surface mining operation in Beckley, West Virginia. Responsible for daily mine planning and coal shipments of up to 100,000 tons per month. Personnel included engineering staff, accountants, and heavy equipment operators.

Chestnut Land Holdings, LLC – Managed operation, production, environmental compliance, safety, and engineering for a 2,000-acre surface mining, impoundment, and preparation plant complex in Bishop, Virginia. Personnel included engineering staff, accountants, and heavy equipment operators. Responsible for:

- Daily mine planning
- Environmental compliance
- Scheduling
- Coal shipments of up to 50,000 tons per month

Kentucky Fuel Corporation – Developed and obtained 800-acre East Gulf Surface Mine in Beckley, West Virginia, including the SMCRA, NPDES, and associated permits required by state and federal agencies.

Chestnut Land Holdings, LLC – Developed and obtained a 1,500-acre expansion in Bishop, West Virginia to allow for surface mining around the Bishop Impoundment.

Massey Energy Company

Massey Energy Company – Managed permitting and compliance issues for the Northern Operating Region of Massey Energy Company which included:

- Nicholas Energy

- Republic Energy
- Green Valley Coal Company
- Mammoth Coal Company

Summit Engineering, Inc

Project Manager for SMCRA and NPDES permitting activities for West Virginia clients in Charleston, West Virginia. Managed a group of five engineers and technicians developing surface and underground mining permit applications for clients such as:

- Fola Coal Company, LLC
- Massey Energy Company
- Brooks Run Mining Company, LLC
- Raven Crest Contracting
- Eastern Associated Coal Company

Criste Engineering Services

Rodman on surface mine surveying crew for several Southern West Virginia based coal mining clients. Surveyed active coal pits and stockpiles for end of month tonnage calculations. Surveyed ponds, ditches, haulroads, and valley fills for as-built certifications submitted to WVDEP. AutoCAD technician for surface and underground mining permit applications for same Southern West Virginia based coal mining clients. Prepared all mapping necessary for permit application submittals. Prepared mapping and tonnage calculations for end of month calculations utilizing survey data obtained in the field. Clients included:

- Fola Coal Company, LLC
- Terry Eagle Coal Company, LLC
- Little Eagle Coal Company, LLC
- Vandalia Resources, Inc.
- Appalachian Fuels, LLC
- Massey Energy Company
- Brooks Run Mining Company, LLC

EDUCATION

- M.S. Mineral Processing Engineering
West Virginia University
- B.S. Mineral Processing Engineering
West Virginia University
- M.B.A. Courses toward M.B.A
Muhlenberg College

EMPLOYMENT HISTORY

- 2018-Present ARM Services, LLC
2008-2018 Potesta & Associates, Inc.
1999-2007 Aquila Dock, Inc.
1994-1999 Quintain Resources, Inc.
1990-1994 Crown Coal & Coke Co.
1989-1990 Stafford Energy, Inc.
1987-1989 Drummond Coal Sales, Inc.
1985-1987 Florida Power & Light Co.
1981-1984 Wheelabrator-Frye
1979-1981 Humboldt Wedag GmbH

PROFESSIONAL CERTIFICATIONS

- ISO 14001 Certifications: EM – Environmental Management Systems, AU – Management Systems Auditing, TL – Leading Management Systems Audit Teams
- OSHA Authorized General Industry Trainer – 10-hour, 30-hour and HAZWOPER

PROFESSIONAL AFFILIATIONS

- West Virginia Coal Mining Institute
West Virginia Land and Mineral Owner's Assn.

AREAS OF SPECIALIZATION

Mineral operations/land evaluation and management, coal sales and procurement/contract negotiation, mineral operations/land analysis and acquisition, permitting activities with all governmental agencies for coal and quarry projects, and environmental audits and compliance. Development and implementation of safety programs and management systems auditing.

PROFESSIONAL EXPERIENCE

Mining and Minerals

Duke Energy, Inc. – Acted as agent for Duke Energy, Inc., reviewing coal contracts and deliveries for multiple coal suppliers for quality, quantity and timing. Visited mines to review production, processing, equipment, mining reserves, regulatory permit approvals, and mine management and staffing relative to their ability to influence compliance with contractual obligations. Developed an assessment of the capabilities of the facilities to meet their contractual obligations regarding the delivery of coal at the agreed price and schedule. Reviews were designed as the first step on the part of the utility to take appropriate actions to enforce contract provisions.

Undisclosed Major Foreign Investor – Coordinated due diligence study of major West Virginia coal producer that ultimately led to acquisition by the investor.

Penn Virginia – Developed and led coal transportation and utilization study (national in scope) to support expansion and acquisition efforts.

Directed and led team of engineers and scientists on permitting activities for numerous surface and underground mines including Article 3, Article 4 NPDES and USCOE permits (new), modifications, renewals, amendments and releases:

- Shafer Brothers, Inc.
- LP Mineral, LLC
- American Bituminous Power Partners, LP
- Coal River Energy

- Bluestone Coal, Inc.
- Rox Coal, Inc.
- PBS Coal, Inc.
- Consol Energy, Inc.
- Raven Crest Contracting
- Coal Valley, LLC
- Aggregate Industries, Inc.
- Preston County Coal and Coke, Inc.
- Greer Limestone, Inc.
- Clintwood Elkhorn Mining Company, Inc.
- J.F. Allen, Inc.
- WWMV, LLC

Patriot Coal and Alpha Natural Resources, Inc. – Developed, coordinated and led third party environmental audits of multiple coal operations in West Virginia, Virginia and Kentucky.

Privately Held LLC – Conducted royalty audit to confirm proper royalty payments were received from producer on property owned by major West Virginia landowner.

West Virginia Department of Environmental Protection – Office of Special Reclamation – Managed engineering and environmental reclamation program development for abandoned mine properties.

Undisclosed Legal Firm – Served as expert witness in family dispute over abandoned mining permits.

Calgon Carbon Company – Led efforts to evaluate properties and producers for potential coal supply.

West Virginia Department of Highways – Conducted and determined valuation for coal properties to be acquired in the process of developing new highway.

Staff Engineer at Humboldt Wedag GmbH:

- U.S. on-site liaison for coal preparation equipment installation and start-up
- Coal, metals and cement projects

Various positions at Wheelabrator-Frye, Inc.:

- Staff coal procurement specialist for production scale coal liquefaction facility
- Coal Systems Engineer responsible for operational engineering at three coal handling facilities, including design engineering, bid analysis, and negotiation, and project coordination for projects involving receipt,

storage, preparation, and transportation of Powder River Basin coal.

- Responsible for system startup at two coal handling facilities with total capacity of 6 million tons annually. Coordinated engineering analysis of potential projects and new ventures.
- Managed operation, maintenance, engineering and financial accounting aspects, including 120-person work force, of a 12 million ton per year Texas coal handling facility for same corporation. Responsible for scheduling and receipt of up to 1 million tons of Powder River Basin coal per month. Personnel included skilled and unskilled labor, heavy equipment operators, accountants, and financial planners.
- Responsible for developing off balance sheet coal projects throughout the United States for large national corporation, including preparation plants, utility coal handling facilities, and fine coal cleaning systems, with major efforts geared toward developing cogeneration projects utilizing coal processing waste as fuel.

Purchasing at Florida Power and Light:

- Led efforts to solicit and evaluate bids submitted by potential coal suppliers. Reviewed the complete operation, including shipping restrictions (rail, river and truck) to determine if the bidders can successfully mine, process and deliver the quantity and quality of coal to meet contract requirements.
- Responsible for system-wide coal requirements, including long-term and spot purchasing; led activities regarding purchase of railcars and limestone, administered coal-water mixture plant conversation; negotiated purchase contracts for large Florida electric utility.

Drummond Coal Sales, Inc.:

- Responsible for purchase, shipment, contract negotiation and administration and quality assurance of all traded coal for domestic and export accounts of large Alabama coal sales company and Alabama coke facility (approximately 2.5 million tons per year). Supervised staff in both home and satellite offices throughout United States.
- Managed engineering, transportation, sales, quality control, and river dock operations for all produced and purchased coal. Responsible for sales, purchase, shipment, quality control, contract negotiation,

administration and transportation of traded coal for several companies.

- Managed coal loadings on rail sidings, and onto barges on the Big Sandy, Ohio and Kanawha Rivers; central Appalachian and Illinois basin coalfields

Stafford Energy, Inc. and Crown Coal and Coke:

- Managed engineering, transportation, sales, quality control, and river dock operations for all produced and purchased coal. Responsible for sales, purchase, shipment, quality control, contract negotiation, administration and transportation of traded coal for several companies.
- Managed coal loadings on rail sidings, and onto barges on the Big Sandy, Ohio and Kanawha Rivers; central Appalachian and Illinois basin coalfields

Quintain Resources, Inc.:

- Conceived and developed expansion opportunity through acquisition of 2,000 acres for mining. Negotiated all purchases/leases of properties and managed all exploration, engineering, construction, and permitting activities leading up to production of 1.2 million tons per year.
- Managed mining operations of newly developed mine and loading facility as well as transportation to and quality control of shipments to customers
- Responsible for adherence to regulations of governmental agencies including West Virginia Department of Environmental Protection, US Alcohol, Tobacco and Firearms, US Army Corps of Engineers, Mine Health and Safety Administration, and West Virginia Miner's Health, Safety and Training

Aquila Dock, Inc.:

- Responsible for operation of 5 million ton per year commodities dock handling coal, magnetite, ammonium nitrate, sand, gravel, and petroleum coke.
- Responsible for operation of 2 million ton per year synfuel plant. Responsible for all operational maintenance of facility that operated with availability rate of over 98 percent.
- Responsible for adherence to regulations of governmental agencies including West Virginia Department of Environmental Protection, US Alcohol, Tobacco and Firearms, US Army Corps of Engineers, Mine Health and Safety Administration, and West Virginia Miner's Health, Safety and Training
- Led numerous due diligence efforts for acquisition.
- Managed engineering and environmental studies for coal dock expansion.

Corporate Safety

Develop and maintain corporate safety programs meeting the requirements of both Mine Safety and Health Administration (MSHA) and Occupational Safety and Health Administration (OSHA)

Approved instructor for OSHA 10 Hour, 30 Hour and Hazwoper courses.

EDUCATION

B.A. Geography, Natural Resources and Environment,
In Progress
West Virginia University

EMPLOYMENT HISTORY

2018-Present ARM Services, LLC
2003-2018 Potesta & Associates, Inc.

PROFESSIONAL CERTIFICATIONS

West Virginia Office of Miners' Health Safety and
Training – 8-Hour

Asbestos Building Inspector- West Virginia, Virginia

Nuclear Density Gauge Certification

Opacity Observer

USDOT HAZMAT-8 hour

TRAINING/RELEVANT COURSE WORK

- April 2012 – Benthic Macroinvertebrate Surveying and Rapid Bioassessment Protocol Methods (WVDEP)
- 2011 – Fish Identification – US Fish and Wildlife Service

AREAS OF SPECIALIZATION

Water Quality, Storm Water, NPDES, Fish Identification,
Benthic Macroinvertebrates

PROFESSIONAL EXPERIENCE

Benthics

Conducted benthic surveys using USEPA Rapid Bioassessment Protocols (RBP) to assess stream quality prior to the issuance of mining permits in several streams in West Virginia and Pennsylvania.

Implementation of the Interim Chemical/Biological Monitoring Protocols for Mountaintop Mining

Operations. Responsibilities include water chemistry sampling, benthic macroinvertebrate sampling, fisheries collection, habitat assessment, report preparation, and report finalization.

Collected and identified fish, benthics, and water chemistry samples relative to ecosystem recovery following spill events.

Conducted seston and periphyton studies, as well as dissolved oxygen studies utilizing sondes such as a Hydrolab and YSI or other data logging equipment.

Supervision and management of field crews, schedules, and data of the collection of water chemistry, benthics macroinvertebrates, fish, and habitat assessment.

Prepared data management and quality assurance/quality control plans performed database design, data interpretation, data validation, and statistical analysis to obtain, determine, and compile available benthic data collected.

Stream/Wetland Delineation, Permitting, and Mitigation

Conducted stream delineation on streams to determine point of origin, intermittent, and perennial reaches.

Stormwater

Collected storm water samples as required by NPDES permits.

Prepared Storm Water Pollution Prevention Plan (SPPP) for facilities in West Virginia.

Prepared and reviewed Discharge Monitoring Reports (DMR) to evaluate compliance with permits.

Groundwater

Prepared Groundwater Protection Plans (GPP) for facilities in West Virginia.

Completed several well monitoring surveys (water chemistry sampling and GPS) for various companies.

ESAs (Phase I and II)

Completed Phase 1 ESA assessment field work for 186,000-acre area in West Virginia.

Completed Phase 1 ESA's auto shops, shopping centers, hazardous material processing facilities, and other commercial properties.

Asbestos

Completed asbestos building inspections on apartment complexes, hotels, manufacturing plants, private residences, and a casino/horse racing facility.

Mining

Performed environmental audit of major West Virginia coal producer.

Managed sampling and reporting of all NPDES requirements for large coal producers and power plant operators.

Performed field observation for Visual Emissions as required by air permits.

Wastewater

Implemented 72-hour performance test of state of the art reverse osmosis plant in North Central West Virginia.

ATTACHMENT D: PROJECT DESCRIPTIONS



RHL 89 WELL PAD

CLIENT: CNX Gas Company LLC

LOCATION: Greene County, Pennsylvania

DURATION: 2020

FEATURES

- Engineering Design & Permitting
- Environmental Delineation
- Environmental Permitting
- Topographic Surveying
- Construction Stakeout
- As-built Surveying
- Construction Management
- Erosion & Sediment Control Inspection
- Compaction Testing

PROJECT DESCRIPTION

In 2020, CNX Gas Company retained Dieffenbach & Hritz to provide Engineering design & permitting, Environmental services and Surveying for a new Oil & Gas well Pad located in Greene County, Pennsylvania, near Graysville. The project consisted of D&H field staff designing an approximately 203 ft long graveled access road from W Roy Furman Highway to an area where a pad will be constructed for the purpose of drilling unconventional gas wells. The proposed access road and well site will involve an environmental assessment of the site and also surveying of construction stakeout and producing a full as-built of the site once it has been completed.



DIEFFENBAUCH & HRITZ

DIEFFENBAUCH & HRITZ, LLC

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Morgantown, WV 26501

Office: 304-985-5555

Fax: 304-985-5557

EQT WATERLINE SYSTEM

CLIENT: EQT Production

LOCATION: Marion & Wetzel Counties, West Virginia

DURATION: 2020

FEATURES

- Engineering Design & Permitting
- Survey Routing
- Construction Stakeout & As-built Surveying

PROJECT DESCRIPTION

In 2020, EQT Production retained Dieffenbach & Hritz to provide Engineering design & permitting, Surveying services for approximately 87,911 LF of waterlines to supply water for hydraulic fracturing on natural gas well pads. Based upon route development data, survey crews and engineering teams finalized waterline routes, and all necessary permits were obtained for the proposed construction. Developed site design including stream and wetland crossings, proposed driveways and waterline road crossings, and stormwater discharge. Erosion and Sediment control plans were developed for each waterline site. The waterline network spans across Marion and Wetzel Counties in West Virginia.



HAMPSHIRE GAS PIPELINE REPLACEMENT

CLIENT: Hampshire Gas | A WGL Company

LOCATION: Hampshire County, West Virginia

DURATION: 2020

FEATURES

- As-Built Survey
- Full Plan set consisting of Plan over Profile Sheets and Pipe data
- GIS Geodatabase

PROJECT DESCRIPTION

In 2020, Hampshire Gas retained Dieffenbach & Hritz to provide as-built survey and mapping services for the replacement of approximately 13,600 LF of gas pipeline located in Hampshire County, West Virginia, near Augusta. The project consisted of D&H field staff to survey the As-built pipeline and recording attribute information for the welds, fittings, overbends, sags, PIs, Trench Plugs, Xray information, any pipe crossings, above piping, natural ground once the pipe was covered up and latitude and longitude locations of each attribute.

Mapping deliverables consisted of line work generation, full plan set consisting of plan view over profiles and data tables with the attribute information that was collected in the field, and amount of cover over the pipeline once it was installed in the ground. Daily ESRI Geodatabases was created to represent each daily as-built survey. Also, a Master Geodatabase was created which consists of the entire project and all attribute data that was collected.



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FALCON LAND AML

CLIENT: A.J. Burke

LOCATION: Nicholas County, West Virginia

DURATION: 2020

FEATURES

- Construction Stakeout Survey
- As-Built Survey
- UAV Mapping

PROJECT DESCRIPTION

In 2020, A.J. Burkes retained Dieffenbach & Hritz to provide construction and as-built survey and UAV mapping services for an AML project located in Nicholas County, West Virginia, near Fenwick. The project consisted of D&H field staff to survey the construction stakeout of modifications to existing ponds, emergency spillways, ditches, manholes, pipes, culverts, sump and construction of a new Limestone Facility. Once the Site has been completed, D&H will return to do a full site As-built survey of all work that was done and provide aerial imagery and finished plan set.



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MASHEY GAP QUARRY UAV MAPPING

CLIENT: J. F. Allen Company

LOCATION: Randolph County, West Virginia

DURATION: 2020

FEATURES

- UAV Mapping & Surveying

PROJECT DESCRIPTION

In 2020, J.F. Allen Company retained Dieffenbach & Hritz to provide UAV Mapping for the Mashey Gap Quarry located in Randolph County, West Virginia, near Elkins. The project consisted of D&H field staff to survey aerial targets and perform a UAV flight to capture aerial imagery to show the progression of the active mining at the quarry. D&H provided Aerial Mapping, contours on 1 ft interval, plan set of the mapping and a Google Earth file of the flight. D&H provides this service to J.F. Allen Company on a quarterly basis to provide updated amount of mining that has commenced since the last flight.



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PURDY RUN QUARRY UAV MAPPING

CLIENT: KCS Contracting, LLC

LOCATION: Harrison County, West Virginia

DURATION: 2020

FEATURES

- UAV Mapping & Surveying

PROJECT DESCRIPTION

In 2020, KCS Contracting retained Dieffenbach & Hritz to provide UAV Mapping for the Purdy Run Quarry located in Harrison County, West Virginia, near Adamsville. The project consisted of D&H field staff to survey aerial targets and perform a UAV flight to capture aerial imagery to show the progression of the active mining at the quarry and to provide volumes of all the stockpiles on site. D&H provided Aerial Mapping, contours on 1 ft interval, plan set of the mapping, a Google Earth file of the flight and a report that gave volumes of each stockpile in cubic yards.. D&H provides this service to KCS Contracting on a monthly basis to provide updated amount of mining that has commenced since the last flight.





NV13 WELL PAD SLIP REPAIR

CLIENT: CNX Gas Company LLC

LOCATION: Greene County, Pennsylvania

DURATION: 2020

FEATURES

- Engineering Design & Permitting
- Environmental Delineation
- Environmental Permitting
- Topographic Surveying
- Construction Stakeout
- As-built Surveying
- Construction Management
- Erosion & Sediment Control Inspection
- Compaction Testing

PROJECT DESCRIPTION

In 2020, CNX Gas Company retained Dieffenbach & Hritz to provide Engineering design & permitting, Environmental services and Surveying for a slip repair for an existing Oil & Gas well Pad located in Greene County, Pennsylvania, near Nineveh. The project consisted of D&H field staff designing the remediation and restoration of a slide area caused by an infiltration berm. Reclaiming the infiltration berm area and re-routing impervious runoff to a new PCSM BMP. Fix a second slip on an existing infiltration basin and converting that infiltration basin to a wet pond. The designed slip repairs will involve an environmental assessment of the site and also surveying of construction stakeout and producing a full as-built of the site once it has been completed.



ARM Services, LLC
317 Cleveland Avenue
Fairmont, WV 26554

HUMPHREY IMPOUNDMENT AND REFUSE AREA

CLIENT: LP Mineral, LLC

LOCATION: Monongalia County, West Virginia

DURATION: 2018 - 2020

FEATURES

- Mine Planning and Environmental and Permitting Consulting Services
- As-Built Certifications
- Day to Day Site Monitoring to Ensure Compliance

PROJECT DESCRIPTION

In 2018, LP Mineral, LLC retained ARM Services, LLC to provide environmental and permitting consulting services for the Humphrey Impoundment and Refuse area located in Monongalia County, West Virginia, near Madsville. The project consisted of ARM Services, LLC performing mine planning, permitting, and on-site monitoring services to assist in the excavation and removal of fine and coarse coal refuse that is trucked to the Grant Town Power Plant in Grant Town, WV and the MEA Power Plant in Morgantown, WV. ARM Services, LLC also assisted in submitting and obtaining the appropriate permits from WVDEP, WVOMHST, and MSHA to allow for this mining to take place.



ARM Services, LLC
317 Cleveland Avenue
Fairmont, WV 26554

BARRACKVILLE REFUSE AREA AND SURFACE MINE

CLIENT: American Bituminous Power Partners, LP.

LOCATION: Marion County, West Virginia

DURATION: 2018 - Ongoing

FEATURES

- Mine Planning and Environmental and Permitting Consulting Services
- As-Built Certifications
- Water Sampling and Monitoring
- Day to Day Site Monitoring to Ensure Compliance

PROJECT DESCRIPTION

In 2018, American Bituminous Power Partners, LP retained ARM Services, LLC to provide environmental and permitting consulting services for the Barrackville Refuse Area and Surface Mine located in Marion County, West Virginia, near Barrackville. The project consisted of ARM Services, LLC performing mine planning, permitting, water sampling, and on-site monitoring services to assist in the excavation and removal of fine and coarse coal refuse, as well as, surface mining of the Waynesburg and Waynesburg A seams of coal that is trucked to the Grant Town Power Plant in Grant Town, WV. ARM Services, LLC also assisted in submitting and obtaining the appropriate permits from WVDEP, WVOMHST, and MSHA to allow for this mining to take place.



ARM Services, LLC
317 Cleveland Avenue
Fairmont, WV 26554

GRANT TOWN REFUSE AREA AND POWER PLANT

CLIENT: American Bituminous Power Partners, LP.

LOCATION: Marion County, West Virginia

DURATION: 2018 - Ongoing

FEATURES

- Mine Planning and Environmental and Permitting Consulting Services
- As-Built Certifications
- Water Sampling and Monitoring
- Day to Day Site Monitoring to Ensure Compliance

PROJECT DESCRIPTION

In 2018, American Bituminous Power Partners, LP retained ARM Services, LLC to provide environmental and permitting consulting services for the Grant Town Refuse Area and Power Plant located in Marion County, West Virginia, near Grant Town. The project consisted of ARM Services, LLC performing permitting, water sampling, and reclamation planning services to assist in the operation of a power plant and ash disposal area in Grant Town, WV. ARM Services, LLC also assisted in submitting and obtaining the appropriate permits from WVDEP, WVOMHST, and MSHA to allow for the operation of this site.



ARM Services, LLC
317 Cleveland Avenue
Fairmont, WV 26554

FARMINGTON REFUSE AREA

CLIENT: American Bituminous Power Partners, LP.

LOCATION: Marion County, West Virginia

DURATION: 2018 - Ongoing

FEATURES

- Mine Planning and Environmental and Permitting Consulting Services
- As-Built Certifications
- Water Sampling and Monitoring
- Day to Day Site Monitoring to Ensure Compliance

PROJECT DESCRIPTION

In 2018, American Bituminous Power Partners, LP retained ARM Services, LLC to provide environmental and permitting consulting services for the Farmington Refuse Area located in Marion County, West Virginia, near Idamay/Farmington. This project was a no cost WVDEP AML project that was obtained by American Bituminous Power Partners, LP. The project consisted of ARM Services, LLC performing mine planning, permitting, water sampling, and on-site monitoring services to assist in the excavation and removal coal refuse that was trucked to the Grant Town Power Plant in Grant Town, WV, as well as, reclamation and water treatment planning to reclaim the site after excavation was complete. ARM Services, LLC also assisted in submitting and obtaining the appropriate permits from WVDEP, WVOMHST, and MSHA to allow for this mining to take place.



ARM Services, LLC
317 Cleveland Avenue
Fairmont, WV 26554

WILLIAMS NO. 2 REFUSE AREA

CLIENT: Coal Valley, LLC

LOCATION: Harrison County, West Virginia

DURATION: 2018 - Ongoing

FEATURES

- Mine Planning and Environmental and Permitting Consulting Services
- As-Built Certifications
- Water Sampling and Monitoring
- Day to Day Site Monitoring to Ensure Compliance

PROJECT DESCRIPTION

In 2018, Coal Valley, LLC retained ARM Services, LLC to provide environmental and permitting consulting services for the Williams No. 2 Refuse Area located in Harrison County, West Virginia, near Enterprise. The project consisted of ARM Services, LLC performing mine planning, permitting, water sampling, and on-site monitoring services to assist in the excavation and removal of fine and coarse coal refuse that was trucked to the Grant Town Power Plant in Grant Town, WV, as well as, reclamation and water treatment planning to reclaim the site after excavation was complete. ARM Services, LLC also assisted in submitting and obtaining the appropriate permits from WVDEP, WVOMHST, and MSHA to allow for this mining to take place.