

The following documentation is an electronicallysubmitted 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.

ome, Alisha S Pettit				Procurem	ent Budgeting Acco	unts Receivable	Accounts	Payable			
citation Response(SR) Dept: 0313	ID: ESR09032	0000000015	08 Ver.: 1 Function:	New Phase: Final	Modified by batch ,	09/03/2020					
Header 🛛 4											📃 List Vie
eneral Information Contact D	efault Values	Discount	Document Information	Clarification Request						-	
Procurement Folder:	755110					SO Doc Code:	CEOI				
Procurement Type:	Central Purchase	e Order				SO Dept:	0313				
Vendor ID:	VS0000019973		2			SO Doc ID:	DEP21000000	1			
Legal Name:	DIEFFENBAUCH	& HRITZ LLC			Pu	blished Date:	8/14/20				
Alias/DBA:						Close Date:	9/3/20				
Total Bid:	\$0.00					Close Time:	13:30				
Response Date:	09/03/2020					Status:	Closed				
Response Time:	11:53				Solicitation	Description:	Addendum No Project	.01 EOI - Sardis (Sa	aas) Landslide		
Responded By User ID:	DandHLLC		2								
First Name:	Kerry				Total of Header	Attachments:	4				
Last Name:	Westfall				Total of All	Attachments:	4				
Email:	kwestfall@dand	dhengineers.									
Phone:	304-985-5555										



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:	755110	755110					
Solicitation Description:	Addendum No.01 EOI - Sardis (Saas) Landslide Project						
Proc Type:	Central Purchase	Central Purchase Order					
Solicitation Closes		Solicitation Response	Version				
2020-09-03 13:30		SR 0313 ESR0903200000001508	1				

VENDOR							
VS000019973 DIEFFENBAUCH & HRITZ LLC							
Solicitation Number:	CEOI 0313 DEP2100000001						
Total Bid:	0	Response Date:	2020-09-03	Response Time:	11:53:52		
Comments:							

FOR INFORMATION CONTACT THE Guy Nisbet (304) 558-2596 guy.l.nisbet@wv.gov	BUYER		
Vendor Signature X	FEIN#	DATE	
All offers subject to all terms and c	onditions contained in this solicitation		

				Ln Total Or Contract Amount
EOI Engineering Design Services				0.00
ode Manufacturer		Specifica	tion	Model #
	ode Manufacturer	ode Manufacturer	ode Manufacturer Specifica	ode Manufacturer Specification

Commodity Line Comments:

Extended Description:

*Dates of Service are estimated for bidding purposes only.

QUALIFICATIONS

for the

EOI – WV DEP SARDIS (SAAS) LANDSLIDE PROJECT (CEOI 0313 DEP210000001)

Harrison County, West Virginia

Prepared for:

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



1095 Chaplin Road, Suite 200 Morgantown, West Virginia 26501

September 3, 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.

Hubert L. any Operations Leader (Name, Title) Herbert L. Parsons III, PE, PS, OPerations Leader (Printed Name and Title) 1095 Chaplin Road, Suite Dow, Morgan town, WV 26501 (Address) (304) 985-5555 / (304) 985-5557 (Phone Number) / (Fax Number) (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.

Dieffenbauch & Hritz (Company)

<u>Hulit h. Parsons Derations Leader</u> (Authorized Signature) (Representative Name, Title) <u>Herbert L. Parsons TT, PE, PS, Alexations Leader</u> (Printed Name and Title of Authorized Representative)

9/3/2020 (Date)

<u>[304] 985-5555 | (304) 985-5557</u> (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)

> Addendum No. 1 Addendum No. 2 Addendum No. 3 Addendum No. 4 Addendum No. 5

Addendum No. 6 Addendum No. 7 Addendum No. 8 Addendum No. 9 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.

Dieffenbauch & Hvitz Company Authorized Signature 3/2020

Date

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



 DIEFFENBAUCH & HRITZ, LLC

 1095 Chaplin Road Suite 200

 Morgantown, WV 26501

 Office:
 304-985-5555

 Fax:
 304-985-5557

September 3, 2020

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

RE: EOI – WV DEP Sardis (Saas) Landslide Project CEOI 0313 DEP2100000001

Dear Mr. Nisbet:

Dieffenbauch & Hritz is pleased to submit our qualification to perform design services in reference to the EOI – WV DEP Sardis (Saas) Landslide Project located in Harrison 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

				ENVIRONMENTAL I ATION QUESTION		Attachment "A"
PROJECT NAME Sardis (Saas)Landslide Proje		DATE (DAY, MONTH 03, September, 2	H, YEAR	-	FEIN 65-1257247	
1. FIRM NAME Dieffenbauch & Hritz LLC		2. HOME OFFICE BUSINESS ADDRESS 1095 Chaplin Road, Suite 200, Morgantown, WV 26501		3. FORMER FI	RM NAME	
3. HOME OFFICE TELEPHONE 5. ESTABLISHED (YEAR) (304)985-5555 2005			Corporation (Disadva Enterpri		. WV REGISTERED DBE isadvantaged Business terprise) NO	
7. PRIMARY AML DESIGN OFFICE 1095 Chaplin Road, Suite 200 (13 AML design personnel - 9	, Morgantow	n, WV 26501 / (30	04) 985	-5555 / Michael D		
8. NAMES OF PRINCIPAL OFFICE Mr. Michael D. Hritz, PE - E Mr. John C. Dieffenbauch, PE Mr. Herbert L. Parsons III, 9. PERSONNEL BY DISCIPLINE	President 2 - Vice Pre	sident	Mr. Ro	ME, TITLE, & TELE oman C. Lawson, PE ic N. Stewart, PE	2 - Senior Eng	
<pre>3 ADMINISTRATIVE</pre>	5 ENVIRO 7 ESTIMA 1 GEOLOO — HISTOR — HYDROL SISTERED PRO and Mining	ISTS ICAL ENGINEERS NMENTALISTS FORS GISTS IANS DGISTS FESSIONAL ENGINER must provide sup	2 2 	PLANNERS: URBAN/ SANITARY ENGINEE SOILS ENGINEERS SPECIFICATION WRITERS PRIMARY OFFICE:	EERS 8 RS — S — REGIONAL RS 51	STRUCTURAL ENGINEERS SURVEYORS TRAFFIC ENGINEERS OTHER TOTAL PERSONNELL them to
10. HAS THIS JOINT-VENTURE V	ORKED TOGET	HER BEFORE?] YES	🗆 NO		

SPECIALTY:	
Mining & Environmental Permitting and Consulting; Mine Reclamation and Water Treatment	WORKED WITH BEFORE Yes No
SPECIALTY: Geotechnical Engineers	WORKED WITH BEFORE Yes No
SPECIALTY: Laboratory Analysis (Water)	WORKED WITH BEFOREYesNo
SPECIALTY: Laboratory Analysis (Water & Soil)	WORKED WITH BEFORE Yes No
SPECIALTY: Laboratory Analysis (Coal)	WORKED WITH BEFORE Yes No
SPECIALTY: Drilling	WORKED WITH BEFORE Yes No
SPECIALTY: Drilling	WORKED WITH BEFORE Yes No
SPECIALTY: Drilling	WORKED WITH BEFORE Yes No
	Reclamation and Water Treatment SPECIALTY: Geotechnical Engineers SPECIALTY: Laboratory Analysis (Water) SPECIALTY: Laboratory Analysis (Water & Soil) SPECIALTY: Laboratory Analysis (Coal) SPECIALTY: Drilling SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: Drilling SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY:

12.	Α.	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
	в.	Is your firm experienced in Soil Analysis?
		NO Description and Number of Projects:
		All Soil Analysis work is subcontracted to NGE
	С.	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.
	Ε.	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 PR	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	SN (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 Responsibilitie	S		
Mr. Hritz has over 20 years of exper a broad range of experience in the r and production phases of the oil & g valuable experience with projects in commercial site development fields i quality of all deliverables and mana many projects for the engineering an	egulatory, planning, well per as industry in the Marcellus the transportation, environm n OH, PA, VA, and WV. Mr. Hri gement practices of all disci d survey departments.	mitting, location constructi Shale. Also, through his car ental compliance, mining, wa tz is responsible for overse	on, drilling, completing eer he has gained ater resources and eeing and assuring the
EDUCATION (Degree, Year, Specializat BS, 1991, Civil Engineering	ion)		
MEMBERSHIP IN PROFESSIONAL ORGANIZAT Marcellus Shale Coalition (MSC) West Virginia Natural Gas Associatio Pennsylvania Independent Oil and Gas	n (WVONGA)	REGISTRATION (Type, Year, S Professional Engineer, 1997 Professional Engineer, 1999 Professional Engineer, 2013 Professional Engineer, 2015	7, Pennsylvania 9, West Virginia 8, North Carolina
13. PERSONAL HISTORY STATEMENT OF PR	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (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	YEARS OF DOMESTIC WATERLINE
Mr. John C. Dieffenbauch, PE - Vice President	0	EXPERIENCE: 20+	DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilitie	S	l	
Mr. Dieffenbauch has over 20 years o Maryland, Ohio, and Pennsylvania. He Coal Highway, in Southern West Virgi coal company using incidental coal a along with his extensive VDOT experi	successfully managed the des nia. This was an 11-mile sect s a means for offsetting cons	ign for the first ever coal ion of 4-lane divided highwa truction costs. Mr. Dieffenk	synergy project, King ay that was built by a bauch used his knowledge,
EDUCATION (Degree, Year, Specializat BS, 1992, Civil Engineering MBA, 2005, Business Administration	ion)		
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, S Professional Engineer, 1999 Professional Engineer, 2000 Professional Engineer, 2009 Professional Engineer, 2010 Professional Engineer, 2014	9, Virginia), West Virginia 9, Pennsylvania), Ohio

13. PERSONAL HISTORY STATEMENT OF PR	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (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	YEARS OF DOMESTIC WATERLINE			
Mr. Herbert L. Parsons, III, PE, PS		EXPERIENCE:	DESIGN EXPERIENCE:			
Operations Leader	5	20+	10+			
Brief Explanation of Responsibilitie	S	•				
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 an		-	-			
surveying include, renewable energy.	conventional energy, road de	sign, utilities, hydrologic	and hydraulic studies.			

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	YEARS OF DOMESTIC WATERLINE					
Mr. Roman C. Lawson, PE, MS -	<u>_</u>	EXPERIENCE:	DESIGN EXPERIENCE:					
Senior Engineering Manager	0	18+	0					
Brief Explanation of Responsibilitie	Brief Explanation of Responsibilities							
served as Engineering Manager, manag design of highway bridges for the We experience in the regulatory, planni management phases of the oil & gas i valuable experience with projects in	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, Specializat BS, 2007, Civil Engineering Technolo MS, 2011, Civil Engineering								
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, S						
		Professional Engineer, 2007						
		Professional Engineer, 2009						
		Professional Engineer, 2010						
 PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) 	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (Furnish complete					
-		YEARS OF EXPERIENCE						
NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC WATERLINE					
Mr. Eric N. Stewart, PE - Senior	TEACO OF AND DESIGN EXTERTENCE.	EXPERIENCE:	DESIGN EXPERIENCE:					
Engineering Manager	0	16	10					
Brief Explanation of Responsibilitie	S							
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, Specializat BS, 2003, Civil Engineering								
MEMBERSHIP IN PROFESSIONAL ORGANIZAT Marcellus Shale Coalition (MSC) West Virginia Natural Gas Associatio Pennsylvania Independent Oil and Gas	n (WVONGA)	REGISTRATION (Type, Year, S Professional Engineer, 2008 Professional Engineer, 2018 Professional Engineer, 2018	, West Virginia , Pennsylvania					

13. PERSONAL HISTORY STATEMENT OF PR	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (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	YEARS OF DOMESTIC WATERLINE
Mr. Vincent J. Attardi, MS -		EXPERIENCE:	DESIGN EXPERIENCE:
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	REGISTRATION (Type, Year, State)
Society of Wetland Scientists	Sewage Enforcement Officer, 2015, Pennsylvania
Pennsylvania Association of Sewage Enforcement Officers	Certified Erosion Prevention & Sediment Control
West Virginia Natural Gas Association Environmental Committee	Inspector, 2016, South Carolina

13. PERSONAL HISTORY STATEMENT OF PR	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (Furnish complete		
data but keep to essentials)					
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE			
Mr. Robyn E. Smith - Construction	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:		
Services Manager	0	30+	0		
Brief Explanation of Responsibilities					
	-				
Mr. Smith has over 30 years of experia a broad range of experience in regula transportation, mining, environmental has managed our Construction Services regulatory monitoring services for na pipelines, and metering facilities for West Virginia.	atory, planning, design, geot l compliance, water resources s group which provides constr atural gas well sites, above or various natural gas compan	echnical and construction ma , and commercial site develo uction observation, certific ground storage facilities, c	nagement phases of opment projects. Mr. Smith cation and routine centralized impoundments,		
EDUCATION (Degree, Year, Specializat: BS, 1984, Mining Engineering	ion)				
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, S	state)		
Marcellus Shale Coalition (MSC)					
Radiation Safety Officer					
 PERSONAL HISTORY STATEMENT OF PR data but keep to essentials) 	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (Furnish complete		
-		YEARS OF EXPERIENCE			
NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC WATERLINE		
Mr. Shawn D. Hornsby - Project	TEAKS OF AME DESIGN EXPERIENCE.	EXPERIENCE:	DESIGN EXPERIENCE:		
Engineer II	0	10+	0		
Brief Explanation of Responsibilities					
	5				
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, Specializat: BS, 2010, Civil Engineering Technolog					
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, S	tate)		

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			
Mrs. April M. Brummage -	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:		
Environmental Scientist I	0	10	0		
Brief Explanation of Responsibilitie	S				
Mrs. Brummage assists field investig experience includes environmental in delineation according to the U.S. Ar stream assessments.	spections, post-construction	inspections, stormwater BMPs	, SWPPs, Wetland		
EDUCATION (Degree, Year, Specializat BS, 2010, Environmental Studies	ion)				
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, S	tate)		
13. PERSONAL HISTORY STATEMENT OF PR	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (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 E. Gray - UAS Pilot / Project Engineer II	0	25+	1		
Brief Explanation of Responsibilitie	s	•			
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, Specializat BS, 2013, Civil Engineering Technolo					
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, S UAS Remote Pilot, 2016, USA UAS Commercial Operator, 20			

13. PERSONAL HISTORY STATEMENT OF PL	RINCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (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	YEARS OF DOMESTIC WATERLINE
Mr. Stacy A, Carpenter - Project		EXPERIENCE:	DESIGN EXPERIENCE:
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)

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
НХ8
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 Multirotor UAV
Parrot Anafi Multirotor 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

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%
currently working on seven] 7 (Dieffenbauch & Hritz ar cal projects in multiple st 2, only a sample of our rec	ates -	ISTRUCTION COSTS: \$	1

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CON	STRUCTION COST
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
N/A					
N/A					
N/A					
11/11					
N/A					

17. COMPLETED WORK WITHIN LAS	T 5 YEARS ON WHICH YOUR FIRM WA	AS THE DESIGNATED ENGINEER OF RECOF	RD.	
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Grand Well Site Natural Gas Well Site Near Middlebourne Tyler County, West Virginia	Antero Resources Corporation 5335 White Oak BLVD Bridgeport, WV 29330		2020	No
Roberts Hill Road Upgrade Road Improvement Project Near Middlebourne Tyler County, West Virginia	Antero Resources Corporation 5335 White Oak BLVD Bridgeport, WV 29330		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		2020	Yes
WDTN19 Well Site Natural Gas Well Site Near Wadestown Monongalia County, West Virginia	CNX Gas Company LLC 1000 Consol Energy Drive Canonsburg, PA 15317		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		2020	Yes
DTE Slip Projects	DTE Midstream 1000 Noble Energy Drive., 5 th Floor Canonsburg, PA 15317		2020	Yes
Bailey Subsidence Stream Survey	Consol Energy, INC 1000 Consol Energy Drive Canonsburg, PA 15317		2017	N/A
Valley Mining AML	A.J. Burke P.O. Box 118 Horner, WV 26372		2020	Yes

	ITHIN LAST 5 YEARS ON WH CH YOUR FIRM WAS RESPONS	ICH YOUR FIRM HAS BEEN A SUB-CON (BLE)	ISULTANT	TO OTHER FIRMS	(INDICATE PHASE		
PROJECT NAME, TYPE	NAME AND ADDRESS	RESS ESTIMATED CONSTRUCTION COST YEAR CONSTRUCTED FIRM AS					
AND LOCATION	OF OWNER	OF YOUR FIRM'S PORTION		(YES OR NO)	WITH		
Barrackville Surface	American Bituminous	\$5,000	2019	NO	Arm Services, LLC		
Mine	Power Partners, L.P.						
Barrackville, West	228 ABPP Drive						
Virginia	Grant Town, WV 26574						
PA Legacy Site	Consol Energy, LLC	\$40,000	2019	Yes	Arm Services, LLC		
Operations Flight	1000 Consol Energy						
Mapping	Drive						
Pennsylvania	Canonsburg, PA 15317						
Martinka Complex	ERP Environmental Fund	\$5,000	2019	Yes	Arm Services, LLC		
Flight Mapping	LLC P.O. Box 305				×		
Colfax, West Virginia	Madison, WV 25130						
Commodore UAV	Natural Resource	\$5,000	2017	Yes	WPP, LLC		
Mapping	Partners, LLC						
Commodore,	5260 Irwin Road						
Pennsylvania	Huntington, WV 25705						
A&G Job #4 UAV	ACIN, LLC	\$5,000	2019	No	WPP, LLC		
Mapping	5260 Irwin Road						
	Huntington, WV 25705						
Rockingham Quarry	BRP, LLC	\$7,500	2018	No	WPP, LLC		
UAV Mapping	5260 Irwin Road						
Rockingham, North Carolina	Huntington, WV 25705						
		information or description of re			firm's		
qualifications to	perform work for the We	st Virginia Abandoned Mine Lands	s Program	•			
20. The foregoing is	a statement of facts.						
1	P			Date: 9-3-	2020		
Signature: //////	A. Lange	Title: Operations Lead	der				
Printed Name: <u>Herbert</u>							

ATTACHMENT B: AML RELATED PROJECT EXPERIENCE MATRIX

PROJECT	Exp. Basis C≂Corp. P=Personnel	Additional Info Provided In Section (s)		PROJECT EXPERIENCE REQUIREMENTS															ICIPATION/CAPACITY				
			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/Replac ement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnica//Stability	Michael D. Hritz, PE	Herbet L. Parsons III, PE, PLS	Roman C. Lawson, PE	Eric N. Stewart, PE	Robyn E. Smith	Other D&H Personnel
									_								_						
Stream Surveys	с			×					×										с				с
Holding Pond Treatment	с											x		x									Р
Water Sampling Collection	с			x								x		x									Р
Stream Restoration and Monitoring	C & P					x							x			x							M&P
WVDEP AML - Saul's Run Landslide	Р					×											x		Р				
WVDEP AML - Tubs Run Highwall and Refuse Phase I	Р		×			x											x		Р				
WVDEP AML - Sandy Run Highwall and Portals	Р		x	x	x	x											x		Р				
WVDEP AML - Pageton Portals	Р				x	x											x		Р				
WVDEP AML - Hampton No. Four Maintenance	Р					x											x		Р				
WVDEP AML - Church Creek/Manown Highwall	Р		×			x											x		Р				
AMBIT - Barrackville Surface Mine and Refuse Area	C & P					x	x						x	x	x								Р
Consol - PA Legacy Operations	C & P					x						x	x	x									Р
ERP - Martinka Complex	C & P											x	x	x	x								Р
EQT - Tuna Nut Well Pad	Р	See Below							x				x										Р
EQT - Haymaker Well Pad	Р	See Below							x				x										Р
EQT - Taco Cat Well Pad	Р	See Below							x				x										Р

* 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.

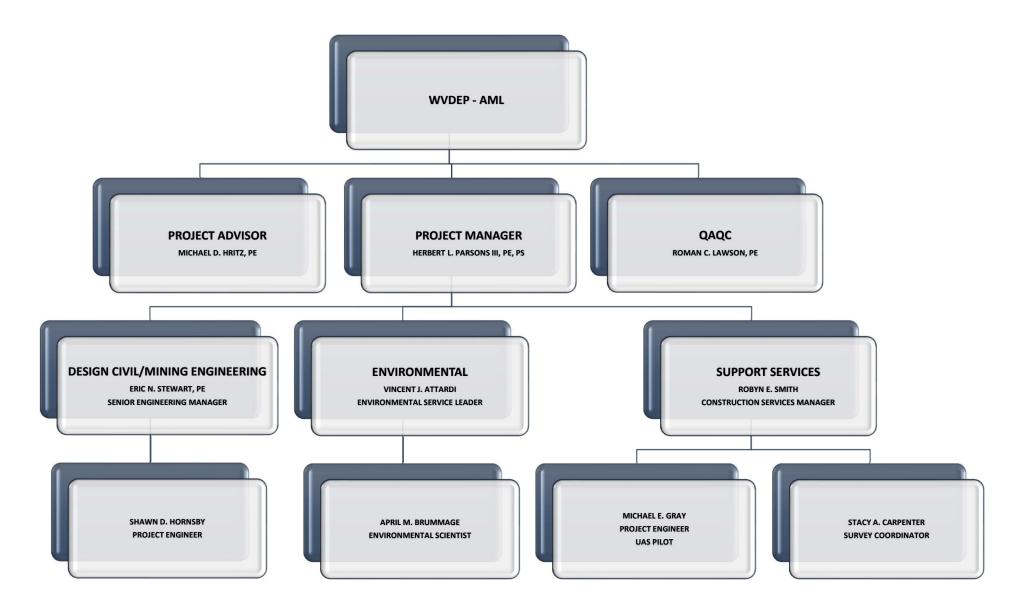
Attachment "B"

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.

ATTACHMENT C: RESUMES



President/Co-Owner Michael D. Hritz, P.E.



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 Dieffenbauch & 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 Dieffenbauch & Hritz, LLC:

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

Dieffenbauch & 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



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 Dieffenbauch & 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.

CoalfieldsExpressway,SouthwestVirginia,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.VDOT.

CoalfieldsExpressway,SouthwestVirginia,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.VDOT.

Breaks Regional Airport, Buchanan County, VA, *Buchanan County Industrial Development Authority*. Engineering/Construction Manager of a multiphased 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

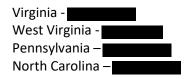
Education:

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

M.S., Civil Engineering, Virginia Tech.

PROFESSIONAL REGISTRATION(S):

Professional Engineer



Virginia Class A Contractor



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 Dieffenbauch & 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 Dieffenbauch & 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

Dieffenbauch & 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):



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.



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 Dieffenbauch & Hritz. These investigations were primarily conducted in support of oil and gas projects.

Experience prior to Dieffenbauch & 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 – (2015) Certified Erosion Prevention & Sediment Control Inspector South Carolina – (2016)

CORPORATE AFFILIATIONS:

Society of Wetland Scientists Pennsylvania Association of Sewage Enforcement Officers WVONGA Environmental Committee



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



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 Dieffenbauch & 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



Mrs. Brummage is currently an Environmental Scientist I for Dieffenbauch & Hritz, LLC (D&H). Mrs. Brummage assists field investigations, data collection, and permit application preparation for D&H projects. Mrs. Bummage'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 Dieffenbauch & 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 Dieffenbauch & Hritz, LLC:

Construction Inspector, Dieffenbauch & 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 Hazwhoper (2016) Safeland (PEC) ISONetworld 36 Hour Wetland Delineation Training (2019) MSHA 24- Hour Surface Mining Certification (2016)

Project Engineer II / UAS Remote Pilot Michael E. Gray



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 Dieffenbauch & 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) ISONetworld WV Safety Sensitive

PROFESSIONAL REGISTRATION(S): Remote Pilot

North Carolina UAS Commercial Operator

Public Water System Operator West Virginia –

Project Surveyor Stacy A. Carpenter



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 Dieffenbauch & 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

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 Dieffenbauch & 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.



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 Dieffenbauch & 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 Dieffenbauch & 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.



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 Dieffenbauch & 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.



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 Dieffenbauch & 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.



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 Dieffenbauch & 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 Dieffenbauch & 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.