



TERRADON CORPORATION P.O. Box 519 Nitro, WV 25143

Tel: 304-755-8291 Fax: 304-755-2636 www.terradon.com TERRADON CORPORATION PO Box 1635 Lewisburg, WV 24901 Tel: 304-645-4636 Fax: 304-645-7614

www.terradon.com

March 27, 2013

Mr. Frank Whittaker, Senior Buyer
Acquisitions Unit, WV Purchasing Division
for the West Virginia Department of Environmental Protection
Office of AML & R
601 57th Street SE
Charleston, WV 25304

Subject: Expression of Interest

DEP16159 Owl Creek HW #2 Design

Mr. Whittaker:

TERRADON is pleased to provide you with the following Expression of Interest to provide professional engineering services to the WV Department of Environmental Protection, Office of Abandoned Mine Lands and Reclamation (WVDEP/AML) for the DEP16159 Owl Creek HW #2 Design project.

TERRADON has a long-standing history of providing quality design and construction services to the WVDEP/AML. Our diverse staff can provide complete services for any issue that may be included in this project. TERRADON welcomes the opportunity this project offers.

I look forward to an opportunity to interview for this project, and hope to be the State's preferred consultant. Should you have any questions regarding the submittal or TERRADON, please do not hesitate to contact me at 304-755-8291.

Sincerely,

Errin Jewell

TERRADON Corporation



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

Solicitation

NUMBER DEP16159 PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF

FRANK WHITTAKER

304-558-2316

RFQ COPY TYPE NAME/ADDRESS HERE

TERRADON Corporation PO Box 519 Nitro, WV 25143

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

ORIGINAL

02/27 BID OPENING DATE		/2012	DID	OPPUTIVE MIME 4	,
LINE	QUANTITY	UOP CAT.	ITÉM NUMBÉR		:30PM AMOUNT
0001	OWL CREEK HV	ЈВ W #2	906-29 DESIGN		
	THE WEST VIF PROTECTION, PROFESSIONAL CONSTRUCTION HW #2 PROJEC PER THE FOLL SPECIFICATIO	RGINIA PURC RGINIA DEPA IS SOLICIT L ENGINEERI MONITORIN T IN MONON LOWING BID	ARTMENT OF ENVIRO LING EXPRESSIONS ING DESIGN SERVIC IG SERVICES AT TH IGALIA COUNTY, WE REQUIREMENTS AND	OF INTEREST FOR ES AND E OWL CREEK ST VIRGINIA,	
SIGNATURE NA					
ITW	hammad i	U. Riaz	TELEPHONE 304-75	55-8291	3/25/13
President	i re	55-068762	26	ADDRESS CHANGES	TO BE NOTED ABOVE

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: DEP16159

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.

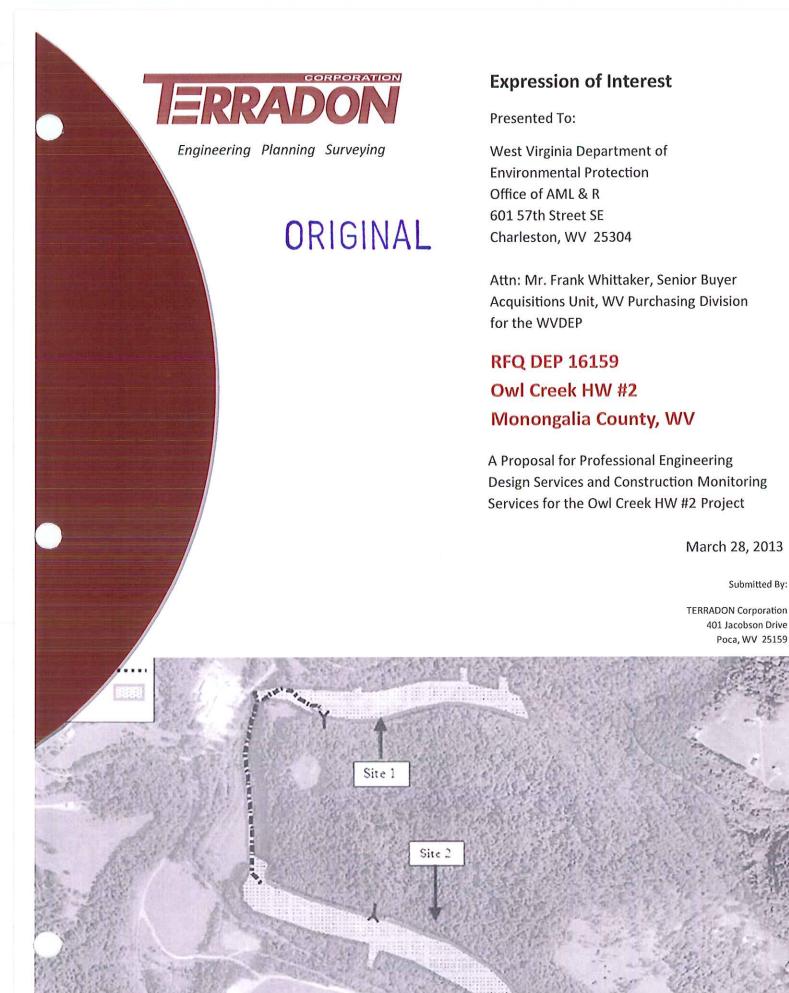
•		V 1 - 1						
		lumbers Received: x next to each addendum rece	eived	d)				
[]	Addendum No. 1	[]	Addendum No. 6			
[]	Addendum No. 2	[]	Addendum No. 7			
]]	Addendum No. 3	[]	Addendum No. 8			
l]	Addendum No. 4	[]	Addendum No. 9			
[]	Addendum No. 5	[]	Addendum No. 10			
further und discussion	I understand 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.							
				TO	Company Lamurd U. Riaz			
			-		Company			
			M	uh	annual U. Riaz			
					Authorized Signature			
				8	3/26/13			
					Date			

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

CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

TERRADON (lor por a-	tion	
(Company)	•		
Muham	mod	U.	Rian
(Authorized Signature)			•
Muhammad Kiaz, (Representative Name, Title)	Presiden	rt	
304-755-839) (Phone Number)	304-7 (Fax Number		636
3-26	-13		
(Date)			



Submitted By:

401 Jacobson Drive Poca, WV 25159

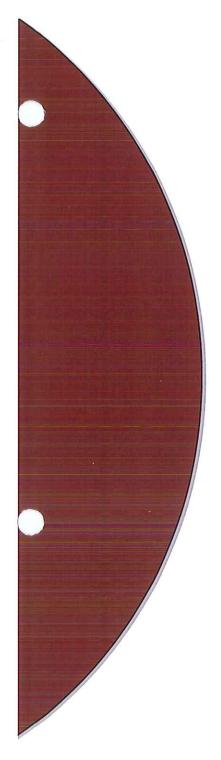
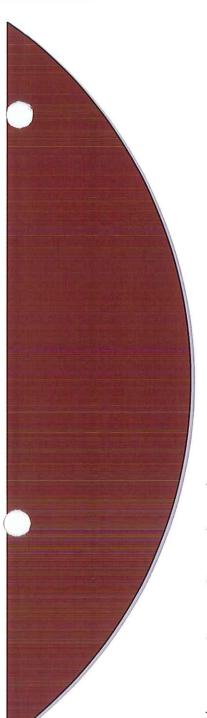


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Expression of Interest

TERRADON Corporation has prepared the materials of this expression of interest in accordance with the Request for Quotation (RFQ) issued by the State of West Virginia. For convenience, the following pages are arranged in order of the evaluation criteria listed in the RFQ.

TERRADON offers a professional and experienced staff to perform the tasks required for this project. TERRADON has been responsible for all aspects of numerous successfully completed Abandoned Mine Lands (AML) projects in recent years.

TERRADON maintains seven West Virginia Registered Professional Engineers in its Primary Charleston-area office and two in its Lewisburg-based office. Additionally, the firm maintains a registered Professional Engineer in its Columbus, Ohio office.

Total number of WV Registered Professional Engineers (Civil or Mining) in the Primary Office:

- Joe Saunders, P.E.
 Project Manager/Engineer
- Davis Fennell, P.E.
 Project Engineer
- Muhammad Riaz, P.E.
 Project Engineer
- Robert Simmons, P.E.
 Project Engineer

- John James, P.E.
 Project Engineer
- Jim Nagy, P.E.
 Project Engineer
- Mike Pyles, P.E.
 Project Engineer

Total number of WV Registered Professional Engineers (Civil or Mining) in the Secondary Office:

- Phil Reed, P.E.
 Project Manager/Engineer
- Kristen McClung, P.E.
 Project Engineer

Reclamation Engineering Design Experience as It Relates to Project Problem Areas

TERRADON has extensive experience in both wet and dry mine seals, with or without bat gates. Our recent experience with Stonecoal Creek had more than two dozen mine seals, and Morgan Run had more than twenty as well.

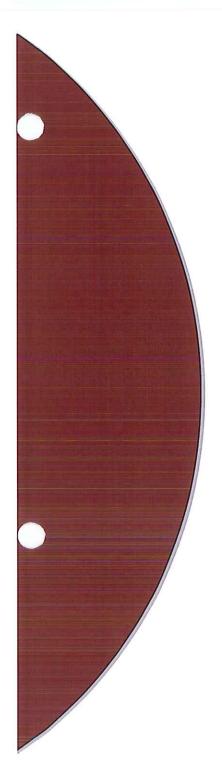
In addition, TERRADON has provided regrading services on numerous refuse piles and highwalls including Jenkin Jones, Micajah, Linger, Camp Mahonegan, Cedar Creek, Roaring Creek and Morgan Run. TERRADON has also provided regrading services on Tuppers Creek, Gerath and Drews Creek Landslides. TERRADON also regraded more than 14 miles of highwall on the Garden Ground site in Fayette County.

TERRADON has experience with all facets of drainage associated with the majority of projects we have completed over the years, from acid mine drainage to basic conveyance of water from problem areas via channels, ditches and pipes. Our years of experience with AML problem areas, coupled with our quick response time to WVDEP/AML needs, makes TERRADON an excellent fit for any project.

Recent Portal and Refuse Experience

- » MALLORY GIBSON PORTALS
- » SHABBY ROOM HOLLOW COMPLEX
- » GAINS HIGHWALL
- » GARDEN GROUNDS HIGHWALLS
- » LILBURN-PRITT HIGHWALLS
- » ROARING CREEK
- » MORGAN RUN PA #2
- » HARRIS BRANCH
- » STONECOAL CREEK COMPLEX
- » DREW'S CREEK "A" HIGHWALL
- » JENKIN JONES
- » MACAJAH REFUSE
- » CEDAR CREEK

- » CARSWELL HOLLOW
- » LOWER BURNING CREEK
- » SARAH ANN (VANCE) DRAINAGE
- » VENUS (HAMILTON) DRAINAGE
- » GRASS RUN REFUSE
- » SPRING BRANCH REFUSE
- » BLACK WOLFE REFUSE
- » ROARING CREEK
- » TUPPERS CREEK
- » GERATH LANDSLIDE
- » NORTH VIEW MINE DRAINAGE
- » HIGHLAND AVENUE
- » KINGWOOD RT. 7 HIGHWALL



Available WV AML Design Teams

TERRADON Corporation maintains the following personnel available to assign to the project. All personnel listed have previous design or inspection experience on AML projects.

TERRADON engineers have numerous resources within the company to draw on, such as surveying, geotechnical engineering, environmental engineering, landscape architecture, materials testing, and construction monitoring. This allows the project manager to control all phases of the design process, from initial site reconnaissance through construction.

Project Manager

Joe Saunders, PE

Project Engineers

- » Joe Saunders, PE
- » John James, PE
- » Jim Nagy, PE
- » Bill Hunt, PG
- » Mike Pyles, PE
- » Robert Simmons, PE
- » Phil Reed, PE
- » Kristen McClung, PE

Engineering Technicians

» Mark Clutter

CAD Designers

- » Bill Gerencir
- » Kevin Sarrett
- » Kevin Garnes
- » Lee Hale, El
- » Andy Nutter, El
- » Early Oldham

Surveyors

- » Robert Thaw, PS
- » Brian Bakanas, PS
- » Randy Melton, PS
- » David Brown, PS

AML Consultant Qualification Questionnaire

WE			T OF ENVIRONMEN ALIFICATION QUE			N Attachment "B"
PROJECT NAME		DATE (DAY, MONTH	(, YEAR)		FEIN	
Owl Creek HW #2 Design		February 28, 2	2013		55-0687626	
1. FIRM NAME	2. HOME OFFICE BUSINESS ADDRESS		3. FORMER	FIRM NAME		
TERRADON Corporation			Orive, Poca, WV 251	159		
4. HOME OFFICE TELEPHONE	5. ESTABL	(SHED (YEAR)	6. TYPE OWNERSHIP Individual X			6a. WV REGISTERED DBE
(304) 755-8291	1989		Partnership Jo	oint-Ve	enture	(Disadvantaged Business Enterprise) YES XNO
7. PRIMARY AML DESIGN OFFICE: 2	ADDRESS/ 3	TELEPHONE/ PERSON	I IN CHARGE/ NO. AM	ML DESI	GN PERSONI	NEL EACH OFFICE
401 Jacobson Drive, Poca, W		**	uhammad Riaz, P.E.	., Presid	dent/ 40 pe	ersons
8. NAMES OF PRINCIPAL OFFICERS Muhammad Riaz, P.E., Preside	OR MEMBER	RS OF FIRM	8a. NAME, TITLE, 8	& TELEP	PHONE NUMB	ER - OTHER PRINCIPALS
Virginia L. King, CEO 9. PERSONNEL BY DISCIPLINE						
9. PERSONNEL BY DISCIPLINE						
10 administrative — Ecologists — Sundscape architects — Surveyors — Mechanical Engineers — Mechanical Engineers — Mining Engineers — Mining Engineers — Traffic Engineers — Estimators — Estimators — Estimators — Estimators — Estimators — Planners: Urban/regional Sanitary Engineers — Historians — Historians — Historians — Historians — Historians — Solis Engineers — Historians — Historians — Historians — Solis Engineers — Historians				1 TRAFFIC ENGINEERS 41 OTHER 60 TOTAL PERSONNELL		
10. HAS THIS JOINT-VENTURE WOR	KED TOGETI	HER BEFORE?	YES NO			

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTAN Questionnaire".	ITS ANTICIPATED TO BE USED. Attach "AML Con	
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
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		No
	CDECIAL TV.	WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	Worden Williams
		Yes
	*	
4	,	No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
IVANUE AND ADDICEOU.	SACTOR OF STOCKARD	. V.
1 9		Yes
		No
	SPECIALTY:	WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALIT:	
		Yes
3		*
*		No
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		Yes
		No
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	8	
<u>*</u>		No
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		Yes
		No
	ADD CLAY (TV)	WORKED WITH BEFORE
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	/	Yes
²		
· ·		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
MAINE AND ADDICESS.		
		Yes
		No
The state of the s	1	140

12.	A.	Are y	our firm's personnel experienced in Abandonec .ine Lands Remediation/Mine Reclamation Engineering
		X yes	Description and Number of Projects: 50 Projects for WVDEP/AML&R
		МО	
		112	your firm's personnel experienced in Soil Analysis?
16	В.		Description and Number of Projects: 35 WVDEP/AML&R projects included some soil analysis. TERRADON
		X YES	provides geotechnical engineering on a wide variety of projects, including dams, highways, bridges, etc.
		МО	
	C.	Are	your firm's personnel experienced in hydrology and hydraulics?
		X YES	Description and Number of Projects: 35 WVDEP/AML&R projects included hydrology and hydraulics.
		NO	
			s your firm produce its own Aerial Photography and Develop Contour Mapping?
	D.		8
		YES	Description and Number of Projects:
		Х ио	We routinely provide photo control surveys and field edit the mapping provided.
	E.	Are eva	your firm's personnel experienced in domestic waterline design? (Include any experience in luation of aquifer degradation as a result of mining.)
		XYES	Description and Number of Projects: 9 WVDEP/AML&R projects included the evaluation of aquifer degradation
			as a result of mining. Four of those projects have been designed and constructed. TERRADON has also designed
		. NO	hundreds of miles of waterline in the last 5 years.
	. F.	Are	your firm's personnel experienced in Acid Mine Drainage Evaluation and Abatement Design?
		X YES	
			abatement. In addition, TERRADON was 1 of only 2 firms evaluating and designing AMD abatement of special
		. NO	reclamation projects in 1992, 1993 and 1994.

data but keep to essentials)		YEARS OF EXPERIENCE	
AME & TITLE (Last, First, Middle Int.) James, John W. P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
Senior Geotechnical Engineer	11	33	EXPERIENCE: 9
rief Explanation of Responsibilitie			<u> </u>
Geotechnical Project Manager for TER		for contract administration and	project management; peer
review of design, construction drawings	and enecifications: constructabili	ty review and construction cost	estimates.
review of design, construction drawings	and specifications, constructability	ty review and contention content	•
	•		
DUCATION (Degree, Year, Specializat	cion)		
B.S., 1968, Civil Engineering			
		DEGLERON / March Volume C	tata)
EMBERSHIP IN PROFESSIONAL ORGANIZA	TIONS	REGISTRATION (Type, Year, S	cate,
American Society of Civil Engineers (F	Past President, WV Section)	P.E., 1973, WV	
		DO THE DOCTOR	T /Thursiah complete
 PERSONAL HISTORY STATEMENT OF P. data but keep to essentials) 	RINCIPALS AND ASSOCIATES RESPO	INSIBLE FOR AML PROJECT DESIG	N (Fuinish complete
JAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	Typing on powpamia
Saunders, William "Joe", P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 21	YEARS OF DOMESTIC WATERLINE DESIGN 21 EXPERIENCE:
rief Explanation of Responsibiliti	es		
Primary Project Manager for and Engir	eer. Responsible for project over	sight and overall delivery. Will be	e design engineer for all
Primary Project Manager for and Engir	eer. Responsible for project over	sight and overall delivery. Will be ederal requirements.	e design engineer for all
Brief Explanation of Responsibiliti Primary Project Manager for and Engin elements of the project and ensure con	eer. Responsible for project over	sight and overall delivery. Will be ederal requirements.	e design engineer for all
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Primary Project Manager for and Engirelements of the project and ensure con	eer. Responsible for project over opliance with all local, state and fe	sight and overall delivery. Will be ederal requirements.	e design engineer for all
Primary Project Manager for and Engirelements of the project and ensure con	eer. Responsible for project overs npliance with all local, state and fe	ederal requirements.	,
Primary Project Manager for and Engine elements of the project and ensure constitution (Degree, Year, Specializa B.S., 1998, Civil Engineering, West Vindocephol	reer. Responsible for project overship in the project	P.F. 2001 West Virginia P.	E 2005 North Carolina
elements of the project and ensure con EDUCATION (Degree, Year, Specializa B.S., 1998, Civil Engineering, West Vi	reer. Responsible for project overship in the project	ederal requirements.	E 2005 North Carolina

13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	INCIPALS AND ASSOCIATES kPOI	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
Gerencir, William	2005 MM	EXPERIENCE:	WATERLINE DESIGN EXPERIENCE:
Senior CAD Designer	20	23	EXPERIENCE: 20
Brief Explanation of Responsibilitie	s		
Mr. Gerencir is responsible for CAD des			section, and detail sneet
preparation. Quantity Takeoffs, Calculat	ion Briefs and additional design re	elated tasks.	
EDUCATION (Degree, Year, Specializat	ion)		· · · · · · · · · · · · · · · · · · ·
A.S., 1989, Civil/Surveying Engineering	Technology		a de la companya de
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, St	cate)
N/A		N/A	
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	RINCIPALS AND ASSOCIATES RESPO		(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	Transa on Boundary
Brown, David A., P.S.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
Professional Surveyor	9	15	EXPERIENCE: 7
Brief Explanation of Responsibilities	es		10
Responsible for all aspects of surveying	g, including photogrammetry cont	rol, if required, field editing of ma	apping, topographic mapping
establishment of survey control monum	ents and establishing base lines	for construction layout and quant	tity measurement. Also, tax
map overlays and detailed property cla			
EDUCATION (Degree, Year, Specializate B.S., 1996, Engineering Technology	cion)		de service de la constante de
West Virginia Association of Land Surv	eyors	P.S., 2003, WV P.S., 2008	
MEMBERSHIP IN PROFESSIONAL ORGANIZA	TIONS	REGISTRATION (Type, Year, St	tate)
			18

Software:	Autodesk 2010 Civil 3D	
	SedCad 4 - Erosion Control and Hydrology Software	
	Haested Method Flowmaster Software for Channel Design	
	Haested Method - Water CADD (Pipe Network Analysis)	
	Slope Stability -	
	PC Stable	
	REAME	
	SBSLOPE	
·	WinStable and WinStable 2003	
	Piling Walls, Anchors and Reinforced Earth Walls -	
	Lpile	
	HeliCAP	
	Anchor 400	
	KeyWall 2004	
T	TR 55, TR 20, TR 66 (Sites) - Hydrology	٠. ٠
	Hec-1, Hec HMS 2.22, HEC R As 3.1.2 - Hydrology	
	LC 58 + RP 61 - Structural (wall)	
	Microstation V8	
Surveying Equipment:	Trimble 4700 modular, RTK Global Positioning Total Station	
	Trimble Geomatics Office Software	
	Topcon Total Stations (3)	
	SMI Data Collectors (3)	
Printing/Plotting/Reproduction:	HP DesignJet T1120 Sharp AR-C150 Full Color Copier/Printer	
	HP DesignJet 1050C Plotter (2) Oce 7056 Engineering Size Copier	
	HP LaserJet 8000 Printer (2)	
	HP Color LaserJet 3700	
	HP Color LaserJet 5500	-
	Sharp AR-550 Copier/Printer (2)	

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Manila Ridge Extension Engineering Poca, WV	Putnam County Commission 3389 Winfield Road Winfield, WV 25213	104,000.00	100%
Manila Ridge Extension Inspection Poca, WV	Putnam County Commission 3389 Winfield Road Winfield, WV 25213	90,000.00	0%
WV Air National Guard Design/Inspection Charleston, WV	WV American Water Shared Services Center P.O. Box 5609 Cherry Hill, New Jersey 08034	201,615.00	98%
Lilbern Pritt Highwall Design Junior, WV	WVDEP/AML&R 601 57th Street SE Charleston, WV 25304	141,855.00	70%
Mallory (Gibson) Portals Design Mallory, WV	WVDEP/AML&R 601 57th Street SE Charleston, WV 25304	70,844.00	95%
Montgomery 6th Ave. Pump Station Montgomery, WV	Sanitary Board Of Montgomery 706 Third Avenue Montgomery, WV 25136	162,200.00	0%
Ham Sanitary Landfill - Peterstown WV	HAM Sanitary Landfill P.O. Box 576 Peterstown, WV 24963	157,500.00	80%
Northern Wayne County PSD Engineering Wayne, WV	Northern Wayne County PSD P.O. Box 775 Lavallette, WV 25535	29,500.00	80%
Upper Glade Creek Dam Improvements	Beckley Water Company Po Box 2400 Beckley, WV 25802-2400	35,000.00	85%
TOTAL NUMBER OF PROJECTS: 9		TOTAL ESTIMATED CONSTRUCTION C	COSTS: \$

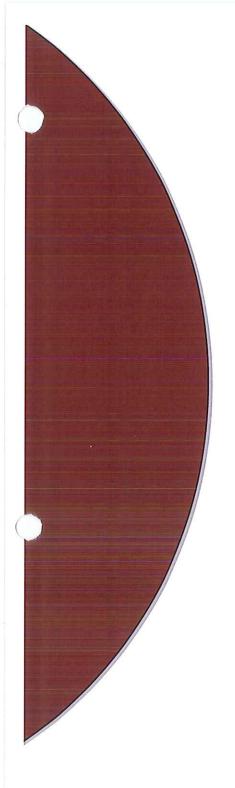
PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONS	TRUCTION COST
# **			-	ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Project Arrow Glen Jean, WV	Utility Design	Trinity Works, LLC 411 Main Street Suite 210 Mount Hope, WV 25880		a a	889,250.00
Project Arrow Glen Jean, WV	Summit Center Utilities Design	Trinity Works, LLC 411 Main Street Suite 210 Mount Hope, WV 25880			55,000.00
Project Arrow Glen Jean, WV	Construction Phase Engineering Services	Trinity Works, LLC 411 Main Street Suite 210 Mount Hope, WV 25880	*		285,000.00
Project Arrow Glen Jean, WV	AT&T Cell Tower Conduit	Trinity Works, LLC 411 Main Street Suite 210 Mount Hope, WV 25880			55,000.00
Moorefield High School Moorefield, WV	Site Design	Williamson Shriver Architects 717 Bigley Avenue Charleston, WV 25302	2014		1,000,000.00
East Hardy High School	Site Design	Williamson Shriver Architects 717 Bigley Avenue Charleston, WV 25302	2014		1,000,000.00
Fairmont Office Building	Site Design	OMNI Associates 1543 Fairmont Avenue Suite 201 Fairmont, WV 26554	2014		1,500,000.00
Advanced Technology - Advantage Valley South Charleston, WV	Site Design	E.T. Boggess 101 Rockledge Avenue Princeton, WV 24740	2014	15,000,000.00	1,000,000.00
WV Northern ATC	Site Design	E.T. Boggess 101 Rockledge Avenue Princeton, WV 24740	2014	15,000,000.00	1,000,000.00

....

		THE DESIGNATED ENGINEER OF RECORD	VEDE	CONCEDERCE
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Diana Extension Webster Springs, WV	WV American Water Shared Services Center P.O. Box 5609 Cherry Hill, New Jersey 08034	262,000.00	2009	Yes
Putnam County 2007 Extensions Putnam County, WV	Putnam County Commission 3389 Winfield Road Winfield, WV 25213	438,000.00	2007	Yes
Derricks Creek Ridge Extension Sissonville, WV	WV American Water Shared Services Center P.O. Box 5609 Cherry Hill, New Jersey 08034	142,000.00	2008	Yes
Montgomery WWTP Upgrade – Bidding Montgomery, WV	Sanitary Board Of Montgomery 706 Third Avenue Montgomery, WV 25136	211,000.00	2008	Yes
KCRDA 2009 Construction Phase Sissonville, WV	WV American Water Shared Services Center P.O. Box 5609 Cherry Hill, New Jersey 08034	282,000.00	2010	Yes
Pedestrian Bridge-Freyssinet Glen Jean, WV	Freyssinet, Inc. 44880 Falcon Place Suite 100 Sterling, VA 20166	210,052.95	2012	Yes
Sleethes Run Bridge Replacement Lewis County, WV	WV Division of Highways 1900 Kanawha Boulevard, East Charleston, WV 25305	284,254.00	2007	Yes
Beckley - New Roadway Beckley, WV	International Coal Group 300 Corporate Centre Drive Scott Depot, WV 25560	187,000.00	2007	Yes
City Beer Bridge on I-77 Bridge Replacement Project Wood County, West Virginia	WVDOT Building 5, Room A-110 1900 Kanawha Blvd. East Charleston WV 25305	6,000,000.00	2011	Yes
AEP-Gavin Plant Sed Pond #2 Expansion Cheshire, WV	American Electric Power 1530 Winfield Road Winfield, WV 25213	188,000.00	2011	Yes

PROJECT NAME, TYPE	NAME AND ADDRESS	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUC	FIRM ASSOCIATED WITH
AND LOCATION	OF OWNER	OF YOUR FIRM'S PORTION		TED (YES OR NO)	
WVARNG Eleanor Access	WV Army National Guard	\$300,000	2009	Yes	Williamson
Road	1740 Coonskin Drive				Shriver
Surveying & Roadway	Charleston WV 25311	*			Architects
Design	a .	,			
Eleanor, West Virginia	T	230,000.00	2011	Yes	Arrow WV, Inc.
Project Arrow - Shower House Utility Rev	Trinity Works 2128 Mistletoe Boulevard	230,000.00	2011	163	Allow WV, Inc.
Glen Jean, WV	Fort Worth, Texas 76110				
020		3			
Project Arrow -	Trinity Works	285,000.00	2011	Yes	Arrow WV, Inc.
Construction Phase	2128 Mistletoe Boulevard				ž.
Engineering Services	Fort Worth, Texas 76110				
Glen Jean, WV Project Arrow - Logistics	Trinity Works	146,800.00	2011	Yes	Arrow WV, Inc.
Center/Welcome Center	2128 Mistletoe Boulevard	140,000.00	2011	100	222000 00 00 00
Utility Design	Fort Worth, Texas 76110				
Glen Jean, WV		e seemen e			
Pikeview Middle School	Mercer County Public Schools	\$5,000,000	2009	Yes	E.T Boggess Architects
Site/Civil, Survey	1403 Honaker Avenue	a some grander			
Mercer County, West	Princeton, WV 24740		1 -		
Virginia					
Fairmont State University	Fairmont State University	\$1,000,000	2007	Yes	Omni
Campus Improvements	1201 Locust Avenue	_		1	Associates
Fairmont, West Virginia	Fairmont, WV 26554				i=
Moorefield Intermediate	Hardy County BOE		2008	Yes	Williamson
School	510 Ashby Street	\$12,000,000			Shriver
Moorefield, West Virginia	Moorefield, WV 26836	, ,			Architects
	•				
Mountain View Elementary	Putnam County BOE	Section of the sectio	2008	Yes	Williamson
Scott Depot, West Virginia	Winfield, WV 25213	\$2,000,000			Shriver
₩.					Architects
Project Arrow - NPDES	Trinity Works, LLC	350,000.00	2010	Yes	Arrow WV, Inc.
Glen Jean, WV	411 Main Street	330,000.00	2010	100	TALLOW IT IS AND
Cicii Cean, 11 7	Suite 210				5
55	Mount Hope, WV 25880				

Sawmill Vinage CD's Snowshoe, WV	Summit III, LLC 234 Seven Farms Drive Charleston, SC 29492	177,0.00	2007	Yes	Bennett Hofford Construction Company The Rice Mill Building 17 Lockwood Drive Charleston, SC 29401
Allegheny Energy - Fairmont, WV	First Energy Corp. 2800 Pottsville Pike Reading, PA 19605	159,000.00	2008	Yes	OMNI Associates
Mingo Central High – 2 Matewan, WV	Mingo County BOE Sycamore Street Williamson, WV 25661	127,000.00	2008	Yes	Williamson Shriver Architects
Jefferson Elementary Parkersburg, WV	Wood County Board of Education 1210 13th Street Parkersburg, WV 26101	107,000.00	2008	Yes	Williamson Shriver Architects
Pikeview Middle School Princeton, WV	Mercer County Public Schools 1403 Honaker Avenue Princeton, WV 24740	114,500.00	2008	Yes	E.T. Boggess
WV GSA Office Complex Fairmont, WV	State Of West Virginia	311,612.50	2009	Yes	OMNI Associates
Greenbrier West High (LD) Charmco, WV	Greenbrier County Schools 202 Chestnut Street Lewisburg, WV 24901	267,000.00	2009	Yes	E.T. Boggess
Downtown Hotel Charleston - LD (Courtyard) Charleston, WV	Various Clients	105,000.00	2010	Yes	VIM, Inc.
Project Arrow - Mill Creek Parking Lot Glen Jean, WV	Trinity Works 2128 Mistletoe Boulevard Fort Worth, Texas 76110	108,000.00	2011	Yes	Arrow WV, Inc.
qualifications to	perform work for the Wes	information or description of a st Virginia Division of Highway	resource	s supporti	ng your firm's
Signature: Muh	a statement of facts. amud U. Ria nmad Riaz, P.E.	Title: President	8	Date: 2	2/28/13



AML and Related Project Experience Matrix

Owl Creek HW #2 Design

PROJECT NAME	Exp. Basis C=Corp.	Additional						DI										I I I VIIVIA	WILL OIM			
PROJECT NAME	C=Corp.	(1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1							PROJECT EXPERIENCE								PRIMARY STAFF PARTICIPATION/CAPACITY M=Management P=Professional ***					
	P=Personal *	Info Provided in Section (s)	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/Mittgation/ Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Joe Saunders, PE	John James, P.E.	Bill Gerencir	Dave Brown, P.S.	Kevin Sarrett
Mallory Gibson Portals	C/P	yes						Х			Х				Х		Х	M/P	M/P	Р	Р	Р
Roaring Creek #4	С	yes	X					х			X					х	х		Р	Р	Р	Р
Stonecoal Creek Complex	С	no		Х	х	х					X				х	x	х		Р	Р	Р	
Stonecoal Creek Complex #2	С	no		Х	Х	Х					х				х	х	х		M/P	Р		
Stonecoal Creek Complex #3	С	no		х	X	х					X				х	х	х		M/P	Р		
Jenkin Jones	С	no	х	х	х	х	х				X					х	х		M/P	Р	Р	
Micajah Refuse Pile	С	no	х	х	Х	х	х	х			X	х				х	х			Р	Р	
Carswell Hollow (Smith) Refuse	С	no		х		х				х	х				х	х				Р	Р	
Cedar Creek Refuse	С	no		Х	х	х	Х				х				х		х			Р	Р	
Spring Branch Burning Refuse Pile	С	no		х		х	х	х			X						х			Р	Р	
Grass Run Refuse (Award Winner)	С	no	Х	х	X	х	X				X	х		х	х	х	х			Р	Р	
Black Wolfe Refuse	С	no		х	х	х	X			х	×				х	х	X			Р	Р	
Lower Burning Creek Refuse	С	no		х	х	х	х			х	Х				х	х	X			Р	Р	
Morgan Run PA #2	С	no	х		X	х		х			Х				х		х			Р	Р	Р
Drews Creek "A" Highwall	С	no	х		х	х					X						X		Р	Р	Р	Р
Venus (Hamilton, R) Drainage	С	yes	х		x	х					×								Р	Р	Р	Р
Sara Ann (Vance) Drainage	С	yes	Х		Χ	Х					Х				Х		Х		Р	Р	Р	Р
Garden Ground Highwall 1	С	yes	Х	Х	Х	Х					Х				Х		Х		Р	Р	Р	Р
Garden Ground Highwall 2	С	yes	Х	Х	X	Х					X				Х		X		Р	Р	Р	Р
Harris Branch Refuse Pile	С	yes	Χ		Х						Χ				Х		Х		Р	Р	Р	Р
Kingwood Rt. 7 Highwall	С	yes	X	Х	Х	Х					X				Х		Х		Р	Р	Р	Р
Shabbyroom Hollow Complex	С	yes	Х	Х	X	Х					Х				Х		Х		Р	Р	Р	Р
Robinette Branch Refuse	С	yes	Х	Х	X	Х					Х				Х		Х	Р	Р	Р	Р	Р
Gains Highwall Lillbern-Pritt	C	yes yes	X	Х	X	X					X	X			Х		X	M/P	P	P P	P	P P

^{*} List whether project experience is corporate or personal 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.



Shabbyroom Hollow Complex

The Shabbyroom Hollow project was an approximately 10 acre complex located along Shabbyroom Branch in McDowell County, West Virginia, near the community of Roderfield. The site consisted of two coal refuse piles and several mine portals in various conditions, including collapsed portals, open portals and draining mine portals. Both refuse piles had areas of steep, unstable and barren slopes and were the primary source of high sediment loads to Shabbyroom Branch. The subsequent sediment deposits in Shabbyroom Branch resulted in a significant reduction of the flow carrying capacity of Shabbyroom Branch, and if the refuse piles collapsed into the adjacent stream, significant flooding would have occurred. The open mine portals were easily accessible and represented a significant life safety hazard from roof falls, potentially deadly gases and other hazards. The draining mine portals were in danger of collapsing and stopping the dewatering of the mine openings, potentially leading to catastrophic blowouts and subsequent downstream flooding. Several residents were also using the draining portals as their primary water source.

The purpose of this reclamation program was to regrade the refuse piles to stable slopes, provide proper stabilization with vegetative cover and permanent drainage channel improvements, and safely seam the open and draining mine portals. Generally, refuse piles were regraded to stable slopes and permanent drainage patterns were established. A 60" pipe was necessary to carry the creek at one of the refuse piles to regrade the refuse pile in-place, as opposed to hauling material to a waste area off site. Where refuse piles too into the creek, stream bank protection was provided. All mine portals were closed with an appropriate mine seal. Bat gates were also installed in all of the open mine portals. Underdrains and mine drain systems were installed to alleviate wet areas in several residents' yards. Several cisterns were installed to enable residents to continue to utilize the mine water as their primary source of water where necessary. All disturbed areas were revegetated or otherwise stabilized with structural methods.

Gains Highwall Project

The Gains Highwall project consisted of three sites located in Harrison County, West Virginia, near the city of Clarksburg. The site occupied approximately 17 acres of conglomerate land area. The purpose of this reclamation program was to regrade the refuse pile and highwall to stable slopes, provide proper stabilization, with vegetative cover and permanent drainage channel improvements and safely seal the open draining and surcharging mine portals. Generally, the refuse pile was regraded to stable slopes and permanent drainage patterns were established. The highwall was regraded to a stable slope by breaking down the top of the highwall and encapsulating the weathered shale strata to prevent further weathering and collapse of the sandstone strata above. Permanent drainage patterns were established. The slip area was regraded to stable slopes and permanent drainage patterns were established. The mine portal contributing the saturation of the slip area was allowed to dewater by installing a horizontal bore. All mine portals were closed with an appropriate mine seal and several horizontal bores were installed to provide permanent and controlled dewatering and permanent drainage patterns were established. Bat gates were also installed in all of the open mine portals. Underdrains, drop inlets and Mine drain systems were installed to alleviate wet areas in several residents' yards. The subsidence area was repaired and a stable drainage channel was provided to alleviate surcharging of the mine workings. Several areas of scattered refuse were soil covered and seeded. All disturbed areas were revegetated or otherwise stabilized with structural methods.

Lilbern Pritt High Walls

The Lilbern-Pritt Highwall Project is located in Barbour County, West Virginia, near the town of Junior. The site consists of a total of six highwalls, and in the initial design phase, areas of wetlands had to be delineated in order to avoid disturbance of any wetland area. Several wetland areas were defined in the project, and as a result, a significant portion of highwall 1 was left un-reclaimed, along with all of highwall 2, highwall 4, and highwall 5.

Additional work included a gabion basket retaining wall, along with ditch design to carry mine conveyance to eliminate a foundation problem at a nearby residence at highwall 1, and soil cover over mine refuse leading to a large wetland at highwall 5.

For the gabion basket retaining wall, a design study was performed to investigate several alternatives to reclaim a very difficult site immediately behind a residence. Alternatives included soil nails, rock anchors, wire net draping, reinforced concrete retaining walls, and gabion basket retaining walls. Considerations for the study were cost, constructability, and future maintenance. The gabion basket retaining wall proved to be the best overall solution for the site.

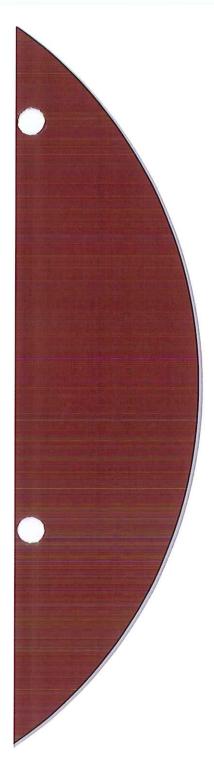
After work was begun in the area of highwall 3, an existing county route was discovered which runs along the bench in front of highwall 3. The county route location was not clearly defined, but according to deeds for the properties adjacent to the county route, the county route served as a property boundary. Reclaiming the refuse and correcting steep slopes on the refuse in the vicinity of the wall was going to require disturbing the county route, and possibly relocation, and as a result the correct location of the county route had to be determined in order to re-establish property lines at the conclusion of the project.

Mallory (Gibson) Portals

The Mallory (Gibson) Portals project was located in Logan County, near the town of Mallory. This project consisted of 57 portals that needed to be sealed, two of which were draining and required ditch design to carry the mine drainage to a stream below the mine portals. Many of the mine portals appeared to be shallow openings which may have originally been used for house coal, but more than half of the portals were deep. Nearly all the mine portals received mine seals with bat gates, but a few of the very shallow portals received mine seals without bat gates.

In addition to the mine seals, two gas lines had to be relocated to allow access to the project site. Below the portals, in the town of Mallory, underdrain was installed to correct wet areas on residences properties. Also in the town of Mallory two major culverts were designed to replace existing pipes that were collapsed or filled with sediment. In order for the culverts to be replaced, existing waterline had to be relocated and guardrail had to be installed on either end or the two major culverts.

At the beginning of the design, a drainage study was performed to compare culverts against open channel reconstruction for a portion of the watercourse through the town. In the existing condition, two culverts were used to carry the stream under two roads. Our scope of services included replacing the two pipes, but there was an area between the two pipes that was an open channel. The drainage study compared alternatives and costs of the for the area between the two culverts.



Garden Ground Highwalls - Phase 1 and 2

The Garden Ground Highwalls – Phase 1 and 2 projects were located in Fayette County, West Virginia, near the Community of Glen Jean. The projects contained several sites occupying approximately 433 acres of conglomerate land area consisting of approximately 12 miles of dangerous highwall. The highwalls ranged in height from 20 to 70 feet. The slopes were steep and property owners were concerned about the possibility of falling debris. The sites also consisted of several coal refuse piles and in excess of 100 mine portals in various conditions, including collapsed portals, open portals and draining mine portals. The refuse piles had areas of steep, unstable and barren slopes that were a primary source of high sediment load to the surrounding streams. The open mine portals were easily accessible and represented a significant life safety hazard from roof falls, potentially deadly gases and other hazards. The draining mine portals were in danger of collapsing and stopping the dewatering of the mine openings potentially leading to catastrophic blowouts and subsequent downstream flooding. Dangerous mine structures also existed on several of the sites. Several dangerous impoundments also existed on the sites. These dangerous impoundments could potentially collapse leading to catastrophic downstream flooding.

The purpose of the reclamation program was to regrade the highwalls to a stable slope by using the available mine spoil that existed on the adjacent strip benches or by breaking down the highwall where available mine spoil quantities were insufficient. Very few highwalls had to be broken down as the available mine spoil was of sufficient quantity in most cases. Proper stabilization, with vegetative cover and permanent drainage channel improvements were provided. Generally, the refuse piles were regraded to stable slopes, soil was covered and seeded and permanent drainage patterns were established. All of the dangerous impoundments were drained in a controlled manner and the soft bottom material was mucked out and allowed to dry. A rock blanket was then provided in the bottom of the impoundments and the dried material was then utilized in the backfilling of the impoundments and highwalls. All mine portals were closed with an appropriate mine seal. Bat gates were also installed in all of the open mine portals. Underdrains and Mine drain systems were installed to alleviate wet areas, impoundments and further saturation of highwall backfill areas. The dangerous mine structures were removed and disposed of at an approved landfill. Several barren areas of scattered refused were also soil covered and seeded. All of the required erosion and sediment control measures were installed prior to construction. Additional erosion and sediment control measure were installed and maintained during construction. All erosion and sediment control structures were removed after construction, once vegetation was reestablished. All disturbed areas were revegetated or otherwise stabilized with structural methods.

Sarah Ann (Vance)

Sarah Ann (Vance) was a project located along Conley Branch near Sarah Ann in Logan County. The site was comprised of open and collapsed draining portals, as well as an area that consisted of a slide. TERRADON provided additional surveying to include the new slide that had developed on the site. The company identified 24 portals: 8 that required wet or dry seals, along with 9 bat gate dry seals, 6 rip rap chutes and 3 cisterns. The project was completed during the summer of 2011.

Roaring Creek #4

The site consisted of surface mine spoil material that was cast to the outslope and not reclaimed to the original contour. Large areas of unvegetated spoil were fund throughout the site. Also, large erosion gullies had developed in several areas, which caused spoil and fines to wash into Roaring Creek. The landowner, Marshall Walls, raised horses and he was very concerned about the highwalls and spoil areas. One horse broke its leg and had to be destroyed. Mr. Walls has two small children, and he was concerned about their safety on the areas of the farm that was mined.

The 63 acre site was graded in the design phase to remove the highwalls and revegetation was included in the design. In addition, all drainage on the site was directed to new channels and conveyed away from the problem areas. Underdrain was also utilized in the design.

Morgan Run PA #2

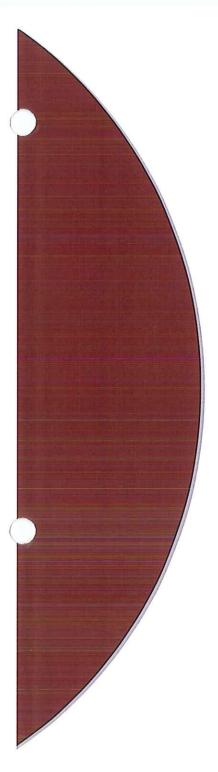
The Morgan Run PA #2 project consisted of 2 sites that are located in Preston County, West Virginia, near the community of Albright. The two sites were separated by Morgan's Run. The project occupied approximately 8 acres of conglomerate land. Two refuse piles had areas of steep, unstable and barren slopes and sediment from the piles was being washed into adjacent road side ditches. The project also has 19 mine portals in various conditions, including collapsed portals, open portals and draining mine portals. The open mine portals were easily accessible and represented a significant life safety hazard from roof falls, potentially deadly gases and other hazards. The draining mine portals were in danger of collapsing and stopping the dewatering of the mine openings potentially leading to catastrophic blowouts and subsequent downstream flooding. Several drainage culverts on the project were severely eroded by the AMD discharging from the draining portals and would need to be replaced. An artesian well, discharging low pH AMD also exists on the project. Several areas of scattered refuse exist on the project. Old abandoned building ruins are present on site and present a hazard to the local population also. Areas of scattered trash and debris exist on the project as well.

The purpose of the reclamation program was to regrade the two coal refuse piles to stable slopes, provide proper stabilization with vegetative cover and permanent drainage channel improvements, and safely seal the open and draining mine portals. Generally, the refuse piles were regraded to stable slopes and permanent drainage patterns were established. On site soil borrow areas were utilized to obtain the necessary soil cover material required. Access to the site isolated by Morgan's run was achieved by installation of a temporary stream crossing. The stream crossing was removed after construction activities were completed. All mine portals were closed with an appropriate mine seal and several wet seals were installed to provide permanent and controlled dewatering and permanent drainage patterns were established. Bat gates were also installed in all of the open mine portals. A sloping bat gate was installed in one of the mine portals in a 10 to 15 foot deep depression.

The artesian well was stabilized and the low PH AMD was treated with a limestone blanket surrounding the well. All trash and debris were disposed of at an approved landfill. Several areas of scattered refuse were soil covered and seeded. Abandoned building ruins were demolished and disposed of at an approved landfill. Some of the Stone building material was able to be disposed of on site in a rubble disposal area. All of the required erosion and sediment control measures were installed prior to construction. Additional erosion and sediment control measure were installed and maintained during construction. All erosion and sediment control measures were removed after construction, once vegetation was reestablished. All disturbed areas were revegetated or otherwise stabilized with structural methods.

Venus (Hamilton) Drainage

In the community of Venus, McDowell County, on a steep mountain side, mine drainage was discharging from a collapsed portal. The amount of water flowing from this portal changes from time to time throughout the year. This mine water discharges down the mountain side, on the surface of the ground and also through underground voids, causing damage to the homes and property of the approximate seven (7) homeowners living down slope of this discharge. A wet seal was designed at the open portal and the drainage from this mine was conveyed into a pipe across the gas well road. A grouted rip rap drainage channel was designed to carry all flow away from the property owners, down the hillside to a point of discharge near the railroad.

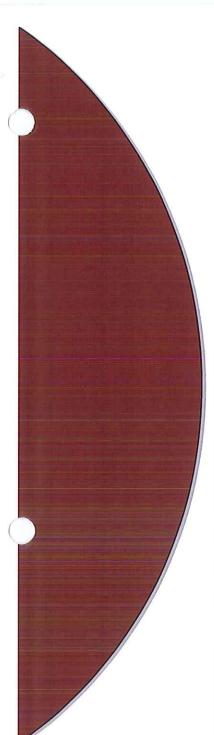


Harris Branch

The Harris Branch site was located in McDowell County, West Virginia, near the community of Havaco. The project contained a coal refuse pile and is approximately 2 acres in size. The refuse pile had areas of steep, unstable and barren slopes that were a source of sediment load to the adjacent Tug Fork River. The main concern of the project was to eliminate the refuse encroachment on the fence and property of an adjacent land owner. Various items of trash and debris existed on the site as well.

The refuse pile was regraded to stable slopes, soil was covered and seeded and permanent drainage patterns were established. The refuse pile was removed from the adjacent property owner and the existing collapsed fence was removed and replaced. An off-site soil borrow area was utilized to obtain the necessary soil required for the soil cover and seeding. Riprap bank protection was utilized to prevent future washout and undercutting of the refuse pile as well as further erosion and sedimentation into the Tug Fork River. All trash and debris were disposed of at an approved landfill. All of the required erosion and sediment control measures were installed prior to construction. Additional erosion and sediment control measure were installed and maintained during construction. All erosion and sediment control measures were removed after construction, once vegetation was reestablished. All disturbed areas were revegetated or otherwise stabilized with structural methods.

Key Personnel Resumes



William "Joe" Saunders, PE

AML-Highways Department Head

As lead designer for TERRADON Corporation, Mr. Saunders is responsible for design engineering for AML and Highways projects. Responsibilities include preliminary design and reports, construction plans and specifications, construction estimates, contracts and bidding review, and construction engineering. Mr. Saunders has more than 14 years similar experience as a designer.

Mr. Saunders directs the in house AML and Highways design teams by QA/QC checking and reviewing, and hydrology and hydraulic calculations. Mr. Saunders also works with the design team to schedule manpower.

Education

» B.S. Civil Engineering, 1998

West Virginia University Institute of Technology

Work Experience

» 2012-Present

TERRADON Corporation

» 2003-2012

ms consultants

» 1998-2003

Buchart Horn

» 1990-1998

Laborers Union

Registrations

» Professional Engineer in WV, NC

Recent AML Project Experience Highlights

- » Mallory (Gibson) Portals (WVDEP) Serves as Project Manager and Lead Design Engineer for this WVDEP-AML project located in Logan County, WV. Responsible for all project tasks and coordination with the client.
- » Lillbern-Pritt Highwall Project (WVDEP) Serves as Project Manager and Lead Design Engineer for this WVDEP-AML project located in Fayette County, WV. Responsible for all project tasks and coordination with the client.
- » Shabbyroom Hollow Complex (WVDEP) Serves as Project Manager and Lead Design Engineer for this WVDEP-AML project located in McDowell County, WV. Responsible for all project tasks and coordination with the client.
- » Robinette Refuse Pile (WVDEP) Serves as Project Manager for this WVDEP-AML Project. While not initially involved as design engineer, Saunders oversaw any remaining work on the project, including engineering support for the client and contractor, and inspection services.
- » U.S. 35 Design and Construction Plans, West Virginia Dept. of Transportation, Mason County (WVDOH)

Structural Engineer: Overall QA/QC. Involved in checking and reviewing roadway geometry, drainage and quantities. Responsible for the design of box culverts.

» U.S. Route 35, Review of Shop Drawings, West Virginia Dept. of Transportations, WV (WVDOH)

Tech Resp Staff reviewed and approved shop drawings for two-span, curved bridge crossing WV County Route 38 and Lower Ninemile Creek.

» Duhring Bridge Study, Design and Preparation of Replacement Plans, WV (WVDOH) Senior Structural Engineer and Technical Manager. Detailed the study of several alternates for a replacement bridge for a structure constructed in the 1930s.

William Gerencir

Auto CAD Designer/Technician

Mr. Gerencir has nearly 20 years of experiences in the engineering related fields including more than 13 years CAD design expertise for a broad scope of projects. He has been with TERRADON for most of those years where he is responsible for design, drafting, quantity

Work Experience

» 1993 - Present

TERRADON Corporation

» 1992-1993

ERM-Midwest, Inc.

» 1990-1992

The H.C. Nutting Company

Certifications

- » West Virginia DOT Certified Portland Cement/Concrete Inspector
- » West Virginia Certified Compaction Inspector
- » WVDOH Certified Agg. Sampler
- » Fairmont State College Engineering Technician/Technologist Certification Program #2356 Level III -

estimates, site design and is also capable of managing a project and corresponding CAD files properly.

Recent AML Project Experience Highlights

Robinette Refuse Pile-2010 Regraded a 5 acre refuse pile and restored 2,100 LF of stream that was being encroached on by said refuse pile as well as design all necessary surface water conveyance channels. Served as lead CAD Designer on project responsible for site layout, grading. Regraded refuse pile in a manner to maintain the current location of an existing stream so as not to add length to the US Army Corps of Engineers permit process as well as avoid disturbing residents property in the area adjacent to the stream. Ensured balancing of earthwork, drainage layout and design. Also plan sheet prepara-tion, profiles sheet preparation, cross section sheet preparation and detail sheet preparation. Responsible to coordinate CAD work and other design tasks with other CAD designers on the project. Generate quantity takeoffs on the project for the contractors bid form and the engineers cost estimate. Prepare the calculation brief

on the project, perform quality control checks on the construction plan sheets. Produce the final deliverable including plans, contractors bid form, engineers and cost estimate. Administered conceptual design meeting with WVDEP on this project. Participated in field reconnaissance and field investigation necessary for completion of the project.

» Gain Highwall– 2010 Served as lead CAD Designer on this project responsible for site layout, grading, balancing of earthwork, drainage layout and design. Also plan sheet preparation, profiles sheet preparation, cross section sheet preparation and detail sheet preparation. Coordinate CAD work and other design tasks with other CAD Designers on the project. Generate quantity takeoffs on the project for the contractors bid form and the Engineers cost estimate. Prepared the calculation brief on the project as well as performed quality control checks on the construction plan sheets. Produced the final deliverable including plans, contractors bid form, engineers cost estimate, and calculation brief. Ran conceptual design meeting with WVDEP. Participated in field reconnaissance and field investigation necessary for the completion of the project.



- » Shabby Room Hollow Complex— 2010 Served as lead CAD Designer on project responsible for site layout, grading, and balance of earthwork (regarded and balanced both refuse piles 1 and 2 which had very little room, on site as to not require removal of any refuse to another location on site of to an offsite waste area., drainage layout and design. Plan sheet preparation, profiles sheet preparation, cross section sheet preparation, detailed sheet preparation. Also coordinate CAD work and other design tasks with other CAD designers on the project. Generate quantity takeoffs on the project for the contractors bid form and the engineers cost estimate.
- » Harris Branch Refuse Pile 2010 Served as lead CAD Designer on project responsible for Site layout, Grading and balancing of earthwork, Drainage layout and design also plan sheet preparation, profiles sheet preparation, cross section sheet preparation and detail sheet preparation, also to co-ordinate CAD work and other design tasks with other Cad designers on the project, Generate quantity take-offs on the project for the contractors bid form and the Engineers cost estimate. Also prepare the calculation brief on the project. perform quality control checks on the construction plan sheets. Produce the final deliverable including plans, contractors bid form, engineers cost estimate and calculation brief. Also run conceptual design meeting with wvdep on project. Also participate in field reconnaissance and field investigation necessary for completion of the project.
- » Kingwood Rt. & Highwall 2010 Served as lead CAD Designer on project responsible for Site layout, Grading and balancing of earthwork, Drainage layout and design also plan sheet preparation, profiles sheet preparation, cross section sheet preparation and detail sheet preparation, also to co-ordinate CAD work and other design tasks with other Cad designers on the project, Generate quantity take-offs on the project for the contractors bid form and the Engineers cost estimate. Also prepare the calculation brief on the project. perform quality control checks on the construction plan sheets. Produce the final deliverable including plans, contractors bid form, engineers cost estimate and calculation brief. Also run conceptual design meeting with the WCDEP on project. Also participate in field reconnaissance and field investigation necessary for completion of the project.

Kevin Sarrett

CAD Designer

Kevin Sarrett is a veteran CAD Designer for TERRADON Corporation. Sarrett offers more than 18 years of industry experience. Sarrett has extensive experience in roadway, drainage and grading design, having provided services on numerous projects to the West Virginia Department of Transportation and the Department of Environ-mental Protection.

Education

» B.S. Civil Engineering West Virginia Institute of Technology

Work Experience

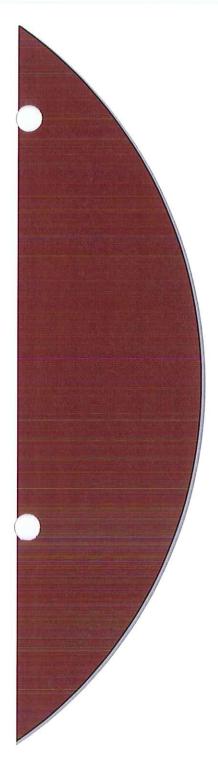
- » 2006 Present TERRADON Corporation
- » 1998-2006 Neff Longest & Beam
- » 1994-1998 Woolpert Consultants

Relevant Project Experience

- » Robinette Branch Refuse Pile Field reconnaissance to assess site conditions. Miscellaneous CAD drafting to set up sheets, details, profiles and cross sections. Designed all drainage for pipes, channels, and aprons. Prepared calculations brief with all supporting documentation, NPDES permit, SWPPP and MM109 permits. Worked with the WVDEP throughout the project in meetings, site visits, emails, and phone calls.
- » Gains Highwall Field reconnaissance to assess and locate portals and site conditions. Miscellaneous CAD drafting to set up sheets, details, profiles, and cross sections. Designed all drainage for portals, pipes, channels, and aprons. Prepared calculations brief with all supporting documentations, NPDES permit, SWPPP and MM109 permits. Worked with the WVDEP through-out the project in meetings, site visits, emails, and phone calls.
- » Shabbyroom Hollow Complex Field reconnaissance to assess and locate portals and site conditions. Miscellaneous CAD drafting to set up sheets, details, profiles, and cross sections. Designed all drainage for por-

tals, pipes, channels, and aprons. Prepared calculations brief with all supporting documentation, NPDES permit, SWPP and MM109 permits. Worked with the WVDEP through-out the project in meetings, site visits, emails, and phone calls.

- » Harris Branch Field reconnaissance to assess site conditions. Miscellaneous CAD drafting to set up sheets, details, profiles, and cross sections. Designed all drainage for pipes, channels, and aprons. Prepared calculations brief with all supporting documentation, NPDES permit, SWPPP and MM109 permits. Worked with the WVDEP throughout the project in meetings, site visits, emails, and phone calls.
- » Kingwood Rt. 7 Highwall Field reconnaissance to assess site conditions. Miscellaneous CAD drafting to set up sheets, details, pro-files and cross sections. Regraded refuse pile on site 2. Designed all drainage for portals, pipes, channels, and aprons. Prepared calculations brief with



all sup-porting documentation, NPDES permit, SWPPP and MM109 permits. Worked with the WVDEP through-out the project in meetings, site visits, emails, and phone calls.

» Sarah Ann (Vance) Drainage Field reconnaissance to assess and locate portals and site conditions. Miscellaneous CAD drafting to set up sheets, details, profiles, and cross sections. Regraded slide area. Designed all drainage for portals, pipes, channels, and aprons. Prepared calculations brief with all supporting documentation, NPDES permit, SWPPP and MM109 permits. Worked with the WVDEP throughout the project in meetings, site visits, emails, and phone calls.

» Venus (Hamilton) Drainage Field reconnaissance to assess and locate portals and site conditions. Miscellaneous CAD drafting to set up sheets, details, profiles, and cross sections. Designed all drainage for portals, pipes, channel and energy dissipater. Prepared calculation brief with all sup-porting documentation. Worked with the WVDEP throughout the project in meetings, site visits, emails, and phone calls.

» **Drew's Creek** Field reconnaissance to assess site conditions. Miscellaneous CAD drafting to set up sheets, details, pro-files, and cross sections. Designed all drainage for pipes, channels, and aprons. Prepared calculations brief with all supporting documentation. Worked with the WVDEP throughout the project in meetings, site visits, emails, and phone calls.

» Prepare contract documents and permits for numerous WVDEP Office of Abandoned Mine Lands & Reclamation projects to include: erosion and sediment control, grading and drainage, impoundment closure, portal closure, water quality evaluation/mitigation, water treatment, and dewatering of deep mine works.

» Groundwater sampling, monitoring, and analysis for various Municipal and Industrial Landfills and WVDEP Office of Abandoned Mine Lands & Reclamation projects.

» Consultation with flood plain agencies and perform Hydraulic Impact Analyses (HEC-RAS) on numerous projects throughout West Virginia, Kentucky, and Ohio.

Mark Clutter

Project Manager

As Project Manager, Clutter prepares construction documents and associated permitting for numerous projects throughout Kentucky, Ohio, and West Virginia to include: erosion and sediment control plans, storm water management, design of impoundment closures, slope stability analysis, field surveying, drawings and specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, project management, contract administration, permitting and report preparation.

Education

- » B.S. Civil Engineering Technology Fairmont State College
- » A.A.S. Civil Engineering Technology Fairmont State College
- » A.A.S. Drafting/Design Engineering Technology Fairmont State College

Work Experience

- » 2010 Present TERRADON Corporation
- » 2004-Present Codeworks
- » 2000-2010 Triad Engineering, Inc.
- » 1990-2003 WV Army National Guard

Registrations

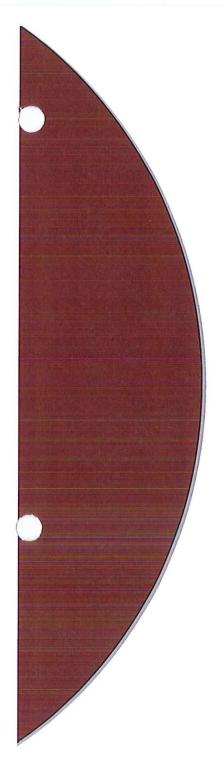
» Certified 40 Hr. HAZWOPER (OSHA 29 CFR 1910.120) OSHA, 2001

Recent AML Project Experience Highlights

- » Mullens Portals & Drainage- 2009, Mullens, Wyoming County, WV Served as Project Manager for AML Project No. DEP14430. Responsibilities included: project management, design, drawings and specification preparation, contract administration, water sampling, permitting, and report preparation. The project consisted of extensive mine workings requiring: construction access, treatment of numerous open and collapsed portals, and treating/conveying storm/mine drainage, in and around the city of Mullens. A majority of the mine drainage flowed through the city storm sewer system and under County Route 54, requiring close coordination with city, state, and federal agencies.
- » Bellington Portals & Drainage—2009, Belington, Barbour County, WV Served as Project Manager- responsibilities included: project management, design, drawings and specification preparation, contract administration, water sampling, permitting, and report preparation. The project consisted of extensive mine workings requiring: construction access, treatment of numerous open and collapsed portals, and treating/conveying storm/mine drainage, in and around the city of.
- » Rumble Refuse & Portals- 2008, near Rumble, Boone County, WV Served as Project Manager- responsibilities included: project management, design, drawings and specification preparation, contract administration, water sampling, permitting, and report preparation. The project

consisted of extensive mine workings requiring: construction access, stabilizing/regarding of refuse piles, treatment of open and collapsed portals, and treating/conveying storm/mine drainage.

» Elk Creek Portals- 2007, near Delbarton, management, design, drawings and specification preparation, contract administration, water sampling, permitting, and report preparation. The project consisted of extensive mine workings requiring: stream and construction access, treatment of numerous open and collapsed portals, and treating/conveying storm/mine drainage.



Purchasing Affidavit

RFQ No.	DEP16159
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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

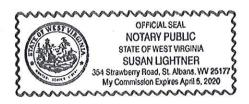
"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality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

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name:TE	ERRADON Corporation	
	Uhammad U. Riaz Date: 3-310-2013	
State ofWV		
County of Putnam	, to-wit:	
Taken, subscribed, and swo	orn to before me this day of March, 2013.	
My Commission expires	april 5, 2010.	
AFFIX SEAL HERE	NOTARY PUBLIC Man dighter	



Certifications





Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Vergisses State Board of Registration for Profusional Engineers knowly verified the person or respossible sharps to registered in West Virginia as a profusional engineer for the noted from, hereby certifies

TERRADON CORPORATION C00901-00

Engineer in Responsible Charge: MOHAMMAD RIAZ - WV PE 014152

his compled with section 830-13-17 of the West Virginia Code generally the invence of a Cortificate of Arthroxogiva. The Break keetly religious of its cortification with circum of this Cortification of Arthroxogical for the period of:

July 1, 2012 - June 30, 2013

providing for the preciou of engineering services in the State of West Verginia

IF YOU ARE REQUIRED TO RECEIPER WITH THE SECRETARY OF STATES OFFICE.
PLEASE SCHOOL THIS CERTIFICATE WITH YOUR APPLICATION.



"HISTOCATORISCO", TRANSI, VIRGINAS SIA DARADO O BESESTATION FOR PROGRESSOR, INCRASES RUESCHO DE SCOR UNDRATTERA AND SIGNED WHICE PARENCO, SED BOARD.

SOLES MEDIUT

WEST VIRGINIA
BOARD OF PROFESSIONAL SURVEYORS

Certificate of Authorization

ISSUED TO:

TERRADON CORPORATION (Nitro, WV)

CERTIFICATE OF AUTHORIZATION No. 13-5430

This certificate is issued by the West Virginia Board of Professional Surveyors in accordance with West Virginia Code § 30-13A-20

The person or organization identified on this certificate is licensed to conduct professional surveying and mapping services in the State of West Virginia for the period January 1, 2013 through December 31, 2013

This certificate is not transferrable and must be displayed at the location for which issued

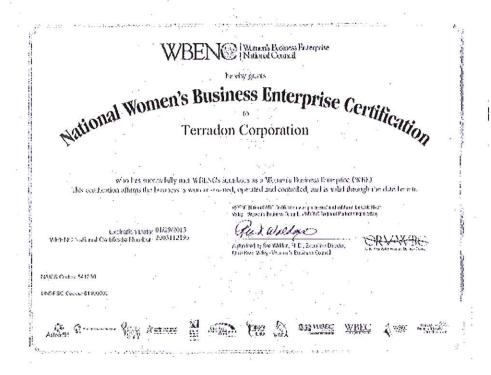
in witness whereof I have put my hand, this 17th day of December, 2012

ROY E. SHREWSBURY, II, Chairman

NELSON B. DOUGLASS Secretary



Certifications



TERRADON CORPORATION is a certified Women's Business Enterprise as defined by the Women's Business Enterprise National Council. TERRADON is controlled by Virginia King, who provides more than 32 years of administrative experience to the company.

The Women's Business Enterprise National Council (WBENC), founded in 1997, is the nation's leading advocate of women-owned businesses as suppliers to America's corporations. It also is the largest third-party certifier of businesses owned and operated by women in the United States. WBENC works to foster diversity in the world of commerce with programs and policies designed to expand opportunities and eliminate barriers in the marketplace for women business owners. WBENC works with representatives of corporations to encourage the utilization and expansion of supplier/vendor diversity programs.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS CONSULTANT SHORT LIST SELECTION CRITERIA TECHNICAL EVALUATION

Project Description: DEP 16159 Owl Creek HW #2

County:

Monongalia

Consultant:

TERRADON Corporation

- 1. Capability
 - (a) Work Force: 60 (includes 7 Professional Engineers)
 - (b) Current Work Load (Overall): Overall approximately 60% capacity available. Have 75% capacity available in highway department.
 - (c) Type of Work (Overall)

Past: Highways, Structural Engineering/ Bridge Design, Construction Engineering, Surveying, Geotechnical, Site Development, Mine Reclamation, Water Distribution, Environmental Assessments and Construction Inspection.

Present: Same

- (d) Anticipated Work By Subconsultant/Subcontractor:
- 2. Project Office Location: Poca, WV Headquarters Office
- 3. Certified DBE in WV? No
- 4. Past 10 Years WV Experience: Providing engineering design services in West Virginia since 1989. WVDOH-US119, Kanawha County (WVDOH-2000 EEA Award); Grade Road, Berkeley County; Flowing Springs Road, Jefferson County (WVDOH 2002 EEA Award); Sedalia Arch Bridge Replacement; US19 Corridor L Widening; St. Mary's Bypass Study; Sleeths Run Bridge Replacement, Many projects for WVDOH Materials Control, Soils and Testing Division.
- 5. Most Recent Consultant Qualification Questionnaire Date: January 2013
- 6. Most Recent Consultant Cost Accounting Information Statement Date: January 2013

FOR WVDOH	USE	ONLY
Comments		

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