



**State of West Virginia  
Department of Administration  
Purchasing Division**

**NOTICE**

Due to the size of this bid, it was impractical to scan every page for online viewing. We have made an attempt to scan and publish all pertinent bid information. However, it is important to note that some pages were necessarily omitted.

If you would like to review the bid in its entirety, please contact the buyer. Thank you.

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# R.D. Zande & Associates, Inc.

October 18, 2007

Mr. John P. B. Stafford, P.E., Design Administrator  
West Virginia Department of Environmental Protection  
Office of Abandoned Mine Lands  
601 57<sup>th</sup> Street, SE – Box 20  
Charleston, West Virginia 25304-2345

Re: Sundial (Hatfield) Refuse Piles, P.O. No. DEP14137

Dear Mr. Stafford:

Please find enclosed a completed "AML Consultant Confidential Qualification Questionnaire" for R. D. Zande and Associates, Inc. (RDZ) to perform engineering services for Sundial (Hatfield) Refuse Piles, P.O. Number DEP 14137. RDZ is a 308-member engineering firm with offices in five states, including two offices in West Virginia at Charleston and Buckhannon. RDZ recently hired Mr. Will Thornton, P.E., who will be working from our Charleston Office. Mr. Thornton has AML experience through his employment at DLZ and Woolpert. RDZ has Expression of Interest (EOI) specific experience successfully completing Projects for the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands (WVAML) Program; for the West Virginia Department of Environmental Protection, Office of Special Reclamation; for the Ohio Department of Natural Resources (ODNR) AML Program; and for the West Virginia Conservation Agency. In addition, RDZ has employee EOI-specific experience completing additional Projects for the WVAML and WV Special Reclamation Programs. Our AML Project experience includes: **shop drawing review and approval**; surveying and mapping; subsurface investigations; groundwater and surface water testing and analyses; wet mine seals and modified wet mine seals with bat gates design; mass balanced earthwork quantities; structure demolition and removal plans; **permitting (COE 404 and WV 401)**; concrete and steel structural designs; site drainage design including hydrologic and hydraulic studies for bridges, natural stream design; channels, ditches, pipes and box culverts; civil site design; sediment control; and revegetation plans as well as **construction plans and specifications**. Approximately half of our EOI experience involved passive acid mine drainage designs ranging from simple limestone beds to complex interactive systems that boost AMD pH to precipitate metals, settle and filter dissolved metals, and polish effluent water with alkalinity prior to release of

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near neutral waters from the Project area. In addition, RDZ designed the first active alkaline treatment system for the State of West Virginia (Special Reclamation), which is nearing construction completion and start-up operations.

Project-Specific AML reclamation and related experience competed for the WVDEP includes:

1.	WVDEP: Weaver Portals and Mine Drainage, Phase I and Phase II;		
\$2,200,000 Eng. Estimate	<b>162,821 C.Y. Earthwork</b> 6,543 L.Ft. "V" Ditches 1,947 L.Ft. Flt Btm Ditches 321 L.Ft. Culverts	<b>14 Wet Mine Seals</b> 1,170 L.Ft. Subs. Drain <b>Debris Removal</b> De-watering Plan Six Limestone Beds w/Aluminators and Flush Ponds	Construction Plans and Specifications Project Mapping <b>Construction Cost Estimate</b> Hydrologic Investigation Subsurface Investigation <b>404 COE Permit (NW27)</b> <b>Pre-Bid Meeting</b> <b>Pre-Construction Meeting</b>
2.	WVDEP: Nixon Run AMD;		
\$250,000 Bid Estiamte	<b>1,800 C.Y. Earthwork</b> 240 L.Ft. "V" Ditches 601 L.Ft. Grouted "V" Ditches 387 L.Ft. Culverts 75 L.Ft. Subsurface Drain	<b>1 Wet Mine Seal with Bat Gate</b> <b>Debris Removal</b> De-watering Plan Subsurface Investigation	Construction Plans and Specifications Project Mapping <b>Construction Cost Estimate</b> Hydrologic Investigation <b>404 COE Permit (NOI)</b> <b>Pre-Bid Meeting</b> <b>Pre-Construction Meeting</b>
3.	ODNR AML: Flint Run East;		
\$1,250,000 Eng. Estimate	<b>308,000 C.Y. Earthwork</b> 2,450 L.Ft. Grass "V" Ditches 4,200 L.Ft. Riprap "V" Ditches 8,750 L.Ft. Riprap "Flat Btm" Ditches 230 L.Ft. Culverts 2,113 L.Ft. Subs Drain	<b>26.0 Ac. Resoiling Plan with Refuse Neutralization</b> Sediment Pond SAPS pond Wetland Ditch Limestone Bed Fresh Water Pond Steel Slag Leachbeds Flush Ponds	Construction Plans and Specifications Project Mapping Subsurface Investigation <b>Construction Cost Estimate</b> Hydrologic Investigation <b>Ohio 401 Permit</b> <b>404 COE Permit (NW27)</b>
4.	WVDOH: U.S. Route 35 Little Five Mile Creek to County Route 17/1;		
\$27,300,000 Eng. Estimate	<b>1,780,000 C.Y. Earthwork</b> 4 Bridges 29-foot box culvert 10' x 6' 23,500 L.Ft. Ditches 6,510 L.Ft. Culverts	Demolition of 21 buildings <b>550 L.Ft. Natural Stream Design</b>	Construction Plans and Specifications, Project Mapping, <b>Construction Cost Estimate</b> , Subsurface Investigation, Hydrologic Investigation <b>2-404 COE Permit (NW14)</b> <b>Shop Drawing Review and Approval</b>

RDZ provides Quality Control/Quality Assurance and Construction Inspection to governmental and private agencies on a regular basis. Some Project-Specific QA/QC experience includes:

	1.	WVDEP: Glady Fork Mining D-35-82 Bond Forfeiture \$3.0M Active Alkaline Treatment Plant;			
\$3,100,000		Active Alkaline Treatment	Concrete Aeration Basin	<b>Construction Inspection:</b> Concrete testing and reporting, Compaction testing and reporting, <b>Full Time Construction Observation and Reporting Shop Drawing Review and Approval</b>	
Bid Estimate		Plant - Single Train to Treat 1,000 GPM	Concrete Flocculator		
		Construction Plans and Specifications	Concrete Settling Basin		
		Project Mapping	Concrete Sludge Thickener		
		Hydrologic Investigation	Concrete Geo-Tube Slab		
		<b>Construction Cost Estimate</b>	Bridge over Stonecoal Creek		
		<b>Pre-Bid Meeting</b>			
		<b>Pre-Construction Meeting</b>			
	2.	WVCA: Fisher-Mill Creek Bank Stabilization;			
\$284,000		148 L.Ft. Drilled Pile and	<b>Construction Inspection:</b>		Construction Plans and Specifications, Project Mapping, Hydrologic Investigation <b>Construction Cost Estimate</b> <b>Pre-Bid Meeting</b> <b>Pre-Construction Meeting</b>
Eng. Est.		Lag Wall,	Concrete testing and reporting,		
		Ground Water and	Compaction testing and reporting,		
		Surface Water Diversions	<b>Full Time Construction Observation and Reporting</b>		
			<b>Shop Drawing Review and Approval</b>		

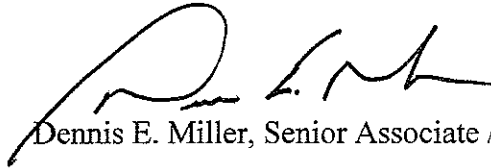
The above Projects demonstrate some of our Project-Specific experience and details a “one-stop shopping” solution for the Sundial (Hatfield) Refuse Piles AML Project. Projects outlined in our attached AMLCCQQ provide more details on the above Projects as well as other Projects completed by RDZ and our employees for the West Virginia Department of Environmental Protection AML and Special Reclamation Programs; the Ohio Department of Natural Resources AML Program; the West Virginia Conservation Agency; and others. RDZ also has employee experience with numerous Small Operators Assistance Program Applications for surface and deep mine applications in West Virginia and Maryland, as well as over 438 hydrologic investigations for Special Reclamation on bond forfeited sites, all involving hydrologic and geologic investigations and Probable Consequences of Mining in different geologic and hydrologic settings across the State.

RDZ can allot three (3) design teams to this project. Design Team leaders are: Gregory Linder, P.E., Will Thornton, P.E., and Randy Calkins, P.S. each design team will have necessary support personnel including CADD Operators, Staff Engineers, Survey Crews, and other support personnel to ensure the project is completed within WVDEP timeframes. In addition, Randy Calkins will serve as AML Corporate Manager. Mr. Linder and Mr. Thornton have reviewed numerous “Shop Drawing Submittals” for multi-lane and single lane roadways, bridges, and civil site design projects. In addition, both men are accustomed to “red-lining” in-house plans and specifications for projects similar to this one. Mr. Calkins is very familiar with “WVDEP-AML” way, including plan presentation, specification requirements, and project calculation brief expectations having successfully completed over 39 AML projects as well as numerous similar projects.

We are very excited about the opportunity to continue our working relationship with the West Virginia Department of Environmental Protection and look forward to providing engineering services on this most important Project. We believe no other company can meet our quality of work, which, when coupled with our experience, allows us to be more efficient and therefore very cost competitive. Our Buckhannon Office will respond quickly, effectively, and in the most economical way. If chosen, our primary objective will be to address WVAML needs with numerous professionals in varying fields of expertise available on an "as needed" basis from our Columbus and Charleston Offices.

Should any questions arise, or if we can supply additional information or be of further service to you, the Purchasing Division, or the West Virginia Department of Environmental Protection, please contact me anytime at (304) 472-7140.

Respectfully Submitted,  
**R. D. ZANDE AND ASSOCIATES, INC.**

A handwritten signature in black ink, appearing to read "Dennis E. Miller", is written over a horizontal line.

Dennis E. Miller, Senior Associate / Office Manager