



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

Request for Quotation

RFQ NUMBER
DNR80086

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
BUYER 32
304-558-0492

VENDOR

*210130744 202-885-2174
 KARST WATERS INSTITUTE INC
 PO BOX ~~537~~ 4142
~~CHARLES TOWN WV 25414~~
LEESBURG VA 20177

SHIP TO

DIVISION OF NATURAL RESOURCES
 PROCUREMENT OFFICE
 CAPITOL COMPLEX
 BUILDING 3, ROOM 630
 CHARLESTON, WV
 25305 304-558-3397

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/27/2006				

BID OPENING DATE: **12/19/2006** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
REQUEST FOR QUOTATION						
THE PURCHASING DIVISION IS SOLICITING BIDS FOR THE WV DIVISION OF NATURAL RESOURCES TO PROVIDE AN OPEN-END CONTRACT FOR INVERTEBRATE CAVE SURVEYS IN 60 WV CAVES.						
ATTACHMENTS:						
1. SPECIFICATIONS						
2. AFFIDAVIT						
NOTE: BIDS WILL BE ACCEPTED FOR THE ENTIRE 60 CAVE CONTRACT. MULTIPLE AWARDS WILL NOT BE ISSUED AND INCOMPLETE BIDS WILL NOT BE AWARDED THE CONTRACT.						
0001	1	LS		956-70		
CAVE SURVEYS AND RESEARCH						
EXHIBIT 3						
LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>David C. Gelin</i>	TELEPHONE 703-508-9509	DATE Dec. 11, 2006
TITLE Executive V.P.	FEIN 55-0709841	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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<p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Paul C. Lewis</i>	TELEPHONE 703-528-9509	DATE Dec. 11, 2006
TITLE Executive V.P.	FEIN 55-0709841	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 04/11/2001 VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Paul C. Wilson</i>	TELEPHONE 703-508-9509	DATE Dec. 11, 2006
TITLE Executive V.P.	FEIN 55-0709841	ADDRESS CHANGES TO BE NOTED ABOVE

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~~CHARLES TOWN WV 25414~~
LEEBOURG VA 20177

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<p>BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>David L. Kern</i>	TELEPHONE 703-528-9529	DATE Dec. 11, 2006
TITLE Executive V.P.	FEIN 55-0709841	ADDRESS CHANGES TO BE NOTED ABOVE

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~~PO Box 4142~~
~~CHARLES TOWN WV 25414~~
LEESBURG VA 20177

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <u>Karst Waters Institute</u></p> <p>DATE: <u>Dec. 11, 2006</u></p> <p>SIGNED: <u>Daryl C. Gahagan</u></p> <p>TITLE: <u>Executive V.P.</u></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <u>Daryl C. Gahagan</u>	TELEPHONE <u>703-508-9509</u>	DATE <u>Dec. 11, 2006</u>
TITLE <u>Executive V.P.</u>	FEIN <u>55-0709841</u>	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: RON PRICE</p> <p>RFQ. NO.: DNR80086</p> <p>BID OPENING DATE: DECEMBER 19, 2006-----</p> <p>BID OPENING TIME: 1:30 PM-----</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p>----- 202-885-2174 -----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY): DAVID C. CULVER</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>David C. Culver</i>	TELEPHONE 703-528-9509	DATE Dec. 11, 2006
TITLE Executive V.P.	FEIN 55-0709841	ADDRESS CHANGES TO BE NOTED ABOVE

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***** THIS IS THE END OF RFQ DNR80086 ***** TOTAL:						<u>40,000</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Paul C. Lewis</i>	TELEPHONE 703-505-9509	DATE Dec. 11, 2006
TITLE Executive V.P.	FEIN 55-0709841	ADDRESS CHANGES TO BE NOTED ABOVE

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**DNR80086 – SURVEYS FOR 60 WEST VIRGINIA CAVES
BID OPENING: 12/19/2006; 1:30 PM**

Scope of Work:

Conduct cave invertebrate surveys for terrestrial and aquatic invertebrates in the 60 caves listed below. Methods will include "hand collection" as well as the use of bait stations. Note: researchers must hold a US Fish and Wildlife Service permit to collect any federally listed species (i.e., Madison Cave isopod) and apply for and secure a WV Scientific Collecting permit.

Have the specimens collected and identified by taxonomic experts for each taxonomic group.

Deposit voucher specimens in a reputable museum collection (i.e., Smithsonian Institution).

Compile historic cave invertebrate data for WV caves from the literature, museum collections and other sources and compare historic and recent survey data to better understand the status of cave invertebrate populations.

Assist the WVDNR in populating its Biotics database with records of rare cave invertebrate species tracked by the Wildlife Diversity Program.

Provide the following deliverables.

For each cave surveyed:

Cave name

County

Topographic quadrangle

Coordinates

Owner information (minimally to include name(s) and contact information)

Dates surveyed

Threats to invertebrate communities noted

Previous invertebrate records for cave (if previous surveys were conducted).

List of invertebrate species found in current survey

Map of cave showing survey sites/areas of current survey

Notes on any sign of Allegheny wood rats observed

Final report including:

Description of field and laboratory methods used

Curriculum vita for each person conducting field and lab work

Curriculum vita for each expert who identified specimens in each taxonomic group.

Discussion of findings including status of cave invertebrate populations, potential threats, changes in faunal communities where there are previous data and conservation needs.

Summary of cave invertebrate records for WV caves from literature, museum collections, and any other sources, by cave, including new records found during the contracted surveys.

Copies of all documents in hard copy and electronic formats including survey results presented in spreadsheet format.

List of caves to be surveyed:

Berkeley (Donaldson Cave)
Berkeley (Funnel Trap Cave)
Berkeley (Indian River Cave)
Berkeley (Jones Quarry Cave)
Berkeley (Key Hole Calamity Cave)
Berkeley (Whitings Neck Cave)
Grant (DeaheartCave)
Grant (Elkhorn Mountain Cave)
Grant (Indian Cave Most East)
Grant (Indian Cave East)
Grant (Klines Gap Cave)
Grant (Smokehole Caverns)
Hardy (Bob and Tim Cave)
Hardy (Dyers Cave)
Jefferson (Fruit Fly Cave)
Jefferson (George Washington Cave)
Jefferson (John Brown Cave)
Jefferson (Molers Cave)
Mercer (Arch Cave)

Mercer (Beacon Cave)
Mercer (Beaver Pond Cave)
Mercer (Big Spring Cave)
Mercer (Brickyard Ridge Cave)
Mercer (Caldwell Cave)
Mercer (Chris' Last Look Cave)
Mercer (Hole Cave)
Mercer (Honaker 2 Cave)
Mercer (Honaker Cave)
Mercer (Jones Cave)
Mercer (Lorton Lick Cave)
Mineral (Ridgeville Cave)
Monongalia (Coopers Rock Cave)
Monongalia (Lower Beaver Hole Cave)
Monongalia (Maiden Run Cave No. 2)
Ohio (Nickles Cave)
Pendleton (Big Root Cave)
Pendleton (Bill Hendricks Cave)
Pendleton (Blood Cave)
Pendleton (Cedar Cave)
Pendleton (Conrad Cave)
Pendleton (Dave Mallow Cave)
Pendleton (Hamilton Cave)
Pendleton (Hoffman Pit)
Pendleton (Keel Spring Cave)
Pendleton (Kenny Simmons Cave)
Pendleton (Key Cave)
Pendleton (New Trout Cave)
Pendleton (Quarry Cave)
Pendleton (Seneca Caverns)
Pendleton (Skidmore Cave)
Pendleton (Smoke Hole Cave)
Pendleton (Stratosphere Balloon Cave)
Pendleton (Trout Cave)
Pendleton (Vandevender Cave)
Preston (Beaver Hole Cave)
Preston (Collins Cave No. 3)
Preston (Flint Cave No. 3)

Preston (Fox Den Cave)

Preston (Kelly Quarry Cave)

Summers (Barger's Spring Cave)

RFQ No. _____

A F F I D A V I T

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 owned 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 exceeds 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.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: Karst Waters Institute

Authorized Signature: Dan C. Kim Date: Dec. 11, 2006

The Karst Waters Institute, incorporated in West Virginia as a 501c-3 non-profit corporation, bids **\$40,000** on contract DNR 80086, "West Virginia Cave Survey." More information about KWI can be found at its web site, www.karstwaters.org.

The Principal Investigator will be Dr. David C. Culver, Professor of Biology at American University. Dr. Culver has studied and written about cave fauna in general and West Virginia in particular. He is the author of several books on cave life, including *Encyclopedia of Caves* published by Elsevier/Academic Press in 2005 and *Cave life* published by Harvard University Press in 1982. He was co-author of the first compilation of West Virginia cave life, *The Invertebrate Cave Fauna of West Virginia*, published by the West Virginia Speleological Survey in 1976. The Co-Principal Investigators will be Dr. Daniel W. Fong, Associate Professor of Biology at American University and Dr. Horton H. Hobbs III, Professor of Biology at Wittenberg University. Dr. Fong has studied the ecology and genetics of West Virginia cave invertebrates for over 20 years, and is the lead author of the influential review of eye and pigment loss in cave animals, published in the *Annual Review of Ecology and Systematics* in 1995. Dr. Hobbs is a crayfish taxonomist and cave biologist, who is a co-author with Culver of a review of the conservation status of cave animals, "Obligate cave fauna of the 48 contiguous United States", published in 2000 in *Conservation Biology*. All three investigators have extensive experience with West Virginia caves, having collectively visited over 300 caves for biological sampling, including extensive sampling in 2004 and 2005 for the West Virginia Department of Natural Resources. They also have extensive contacts among the caving community, which means they have access to cave locations and descriptions. The West Virginia caving community also will be an important source of volunteer help. The PI's also maintain an large database of nearly 1000 records of the obligate invertebrate cave fauna, including collecting dates.

The components of the work will be accomplished as follows:

I. Invertebrate Survey

In each cave, the fauna will be collected via three different techniques: hand collection, terrestrial pit-fall traps, and aquatic baited traps. Each cave will be visited twice. Hand collections will be made during both visits. Terrestrial and aquatic traps will be set during the first visit, and the traps will be checked after three days during the second visit. The number of traps set at each cave is determined by the length of cave passages but will be subject to adjustment in the field depending on field conditions. The number of traps set in caves ranges from one to four.

During the first visit to a cave, the team members conduct a visual inspection of different microhabitats and collected specimens by hand. During such visual inspections, special attention is focused on leaf or wood detritus,

organic debris such as animal scat, areas underneath small rocks, small crevasses on cave walls, mud banks, edge of streams, and underneath rocks within streams. Terrestrial specimens will be picked up with the aid of a small brush or an aspirator. Aquatic specimens will be aspirated from cave streams or pools with a turkey baster and passed through a fine-mesh aquarium net or will be brushed from the surface of small rocks picked from cave streams. All specimens collected will be preserved in 70% alcohol immediately in the field. Visual inspections and hand collections will be also conducted during the second visit, but the main focus will be on the areas near where the traps will be set during the first visit. Representative samples of all troglobionts and stygobionts will be collected except for members of the orders Turbellaria and Oligochaeta. Stygobiotic flatworms and stygobiotic earth worms will be not collected because they require special preservation techniques and at present there are no taxonomic specialists who can provide identification of these specimens.

Terrestrial pit-fall traps will be set during the first visit to a cave and will be pulled three days later. Each trap will be a plastic container 6.5 cm in diameter and 6.0 cm in depth, and contained about 50 ml of undiluted antifreeze (polyethylene glycol) to a depth of 2 cm. At the appropriate site, a hole will be dug into the substrate with a trowel and the trap will be lowered into the hole. Each trap will be baited with limburger cheese, which is shown to have excellent success in attracting troglobionts. A piece of limburger cheese about 3 cm in diameter will be wrapped in a piece of cheese cloth. The bait will be then suspended with a paper clip about 1 to 1.5 cm below a metal wire mesh screen with mesh size of 5 mm X 5 mm. The baited mesh screen will be then placed on top of the trap, and the surrounding area of the trap will be then rearranged by hand such that the top of the trap is flush with the surface of the substrate. Whenever possible, a flat rock will be propped up with smaller rocks over the trap leaving a clearance of at least 2 cm. The location of each trap will be marked with flagging tape. The traps will be pulled three days later. The mesh screen over each trap will be carefully removed and inspected for organisms hanging onto the screen or the bait, which will be then knocked back down into the trap. The trap will be then pulled out of the substrate and capped, and taken back to the field home base. Later that same day, the content of each trap will be washed with water through a fine mesh aquarium net, placed on a Petri dish and visually inspected under a dissecting microscope. All troglobionts will be removed and preserved in 70% alcohol, and the rest of the content will be discarded.

Aquatic baited traps will be also set during the first visit to a cave that contains a stream or pools. Each trap will be modified from a 600 ml plastic water bottle. The top of the bottle is cut off, inverted, and sealed onto the bottom of the bottle with duct tape. A small piece of raw shrimp is placed into the bottle before the trap was deployed. At the appropriate site, each trap will be completely submerged in the cave stream or pool and weighed down with a rock. The trap location was then marked with flagging tape. In situations where the aquatic habitat is too shallow, a miniature version of the trap will be used. Each mini-trap

consisted of a plastic vial 25 mm in diameter and 5 cm tall with two holes of about 3 mm in diameter drilled into its plastic cap. The min-traps will be also baited with a small piece of shrimp. The traps will be pulled three days after deployment. The duct tape will be removed to separate the top and bottom of the large traps, while the caps will be simply unscrewed from the mini-traps. The content of each will then be washed through a fine mesh aquarium net several times. All organisms caught in the net will be preserved immediately in 70% alcohol.

The P.I. holds a collecting permit from West Virginia Department of Natural Resources and Dr. Fong holds a collecting permit for the federally threatened *Antrolana lira* for both West Virginia and Virginia.

II. Identification

Identification using published keys is not a practical way to obtain identification. Keys are not available for many groups, there are undescribed species, and available keys are difficult. We have assembled the following team of taxonomic experts who have agreed to identify material collected.

Stygobionts (obligate cave-dwelling aquatic species)

Amphipoda	John Holsinger (Old Dominion University) & Daniel Fong (American University)
Copepoda	Tanja Pipan (Karst Research Institute, Slovenia) & Janet Reid (Virginia Natural History Museum)
Isopoda	Julian Lewis (Lewis Consulting)
Decapoda	Horton Hobbs III (Wittenberg University)
Gastropoda	Robert Hershler (Smithsonian Institution)

Troglobionts (obligate cave-dwelling terrestrial species)

Acari	Miloslav Zacharda (Czech Republic Academy of Sciences)
Araneae	Jeremy Miller (California Academy of Sciences)
Opiliones	Tom Briggs (California Academy of Sciences)
Pseudoscorpiones	James Cokendolpher (Texas Tech University Museum)
Collembola	Felipe Soto-Adames (University of Vermont)
Diplopoda	William Shear (Hampden-Sydney College)
Diplura	Lynn Ferguson (Longwood University)
Diplura (Japygidae)	Mark Muegge (Texas A&M University)
Coleoptera	David Culver (American University) with help from Thomas Barr (Univ. of Kentucky)

We will also contract a limited number of species descriptions of undescribed species.

III. Voucher Specimens

Specimens will be sent to the taxonomic experts. They will retain material in their collections for study, and then deposit them in a natural history museum. The museum will vary with the taxonomic group, but will typically be the Smithsonian.

IV. Historic Invertebrate Data

The PI's have a database of nearly historic 1000 records of cave invertebrates, including all data from the original *Invertebrate Cave Fauna of West Virginia*. These data as well as any updated information will be provided as part of the contracted deliverable.

V. Assistance with Biotics database

The PI's will provide copies of all information to the Wildlife Diversity Program, including visits to Elkins as necessary to assist with interpretation or to answer any questions regarding the data.

VI. Deliverables and Timetable

KWI will provide the requested deliverables exactly as requested in the RFQ (individual cave information, summary, spreadsheets and final report) by May 1, 2007, with a preliminary report February 1, 2007. A complete revision of the original *Invertebrate Cave Fauna of West Virginia* is planned and is scheduled for publication by the West Virginia Speleological Survey by 2007. This publication will be provided to the WVDNR as soon as it become available.

VII. Budget

TOTAL

\$40,000