

2. CONTRACT NO.: CPSC-D-12-0001
3. AWARD/EFFECTIVE DATE: 09/15/2016
4. ORDER NUMBER: 0019
5. SOLICITATION NUMBER:
6. SOLICITATION ISSUE DATE:

7. FOR SOLICITATION INFORMATION CALL: **Greg Grayson**
b. TELEPHONE NUMBER (No collect calls): 301-504-7725
8. OFFER DUE DATE/LOCAL TIME: ET

9. ISSUED BY: CONSUMER PRODUCT SAFETY COMMISSION
DIV OF PROCUREMENT SERVICES
4330 EAST WEST HWY
ROOM 523
BETHESDA MD 20814
CODE: FMPS

10. THIS ACQUISITION IS: UNRESTRICTED OR SET ASIDE: % FOR:
 SMALL BUSINESS
 HUBZONE SMALL BUSINESS
 SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS
 WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOMEN-OWNED SMALL BUSINESS PROGRAM
 EDWOSB
 8(A)
 NAICS: 541690
 SIZE STANDARD: \$6.0

11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED: SEE SCHEDULE
12. DISCOUNT TERMS: Net 30
13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700):
13b. RATING:
14. METHOD OF SOLICITATION: RFQ IFB RFP

15. DELIVER TO: CONSUMER PRODUCT SAFETY COMMISSION
DIRECTORATE FOR HEALTH SCIENCES
5 Research Place
Rockville MD 20850
CODE: HS

16. ADMINISTERED BY: CONSUMER PRODUCT SAFETY COMMISSION
DIV OF PROCUREMENT SERVICES
4330 EAST WEST HWY
ROOM 523
BETHESDA MD 20814
CODE: FMPS

17a. CONTRACTOR/OFFEROR: TOXICOLOGY EXCELLENCE FOR RISK ASSESSMENT
ATTN JACQUELINE PATTERSON
2300 MONTANA AVE SUITE 409
CINCINNATI OH 45211-3888
CODE: [REDACTED] FACILITY CODE:
TELEPHONE NO: (513) 542-7475 EXT29

18a. PAYMENT WILL BE MADE BY: CPSC Accounts Payable Branch
AMZ 160
P. O. Box 25710
Oklahoma City OK 73125
CODE: FMFS

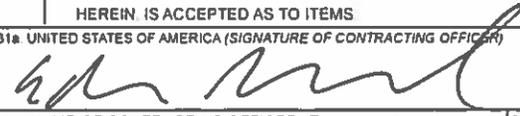
17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER
 18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED SEE ADDENDUM

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
	DUNS Number: [REDACTED] Contracting Officer Representative: Melanie Biggs Email: Mbiggs@cpsc.gov Tel: (301) 987-2593 Task Order 0019 to contract number CPSC-D-12-0001 is hereby issued for risk assessment services. The Contractor shall provide all necessary personnel, materials, and services for the performance period of September 15, 2016 through (Use Reverse and/or Attach Additional Sheets as Necessary)				

25. ACCOUNTING AND APPROPRIATION DATA: 0100A16DSE-2016-2325800000-EXHR004500-252H0
26. TOTAL AWARD AMOUNT (For Govt. Use Only): \$107,873.92

27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4 FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA ARE ARE NOT ATTACHED.
 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA ARE ARE NOT ATTACHED.

28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED.
 29. AWARD OF CONTRACT: _____ OFFER DATED _____ YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN IS ACCEPTED AS TO ITEMS

30a. SIGNATURE OF OFFEROR/CONTRACTOR
31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER): 
30b. NAME AND TITLE OF SIGNER (Type or print):
30c. DATE SIGNED:
31b. NAME OF CONTRACTING OFFICER (Type or print): Eddie Ahmad
31c. DATE SIGNED: 9/15/16

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
0001	<p>September 14, 2017. All work shall be in accordance with the attached statement of work and contractor's final quote dated August 19, 2016.</p> <p>Risk Assessment Services</p> <p>The total amount of award: \$107,873.92. The obligation for this award is shown in box 26.</p>				107,873.92

32a QUANTITY IN COLUMN 21 HAS BEEN

RECEIVED INSPECTED ACCEPTED AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____

32b SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE 32c. DATE 32d PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32e MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE 32f TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32g E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE

33 SHIP NUMBER 34 VOUCHER NUMBER 35 AMOUNT VERIFIED CORRECT FOR 36 PAYMENT 37 CHECK NUMBER

PARTIAL FINAL COMPLETE PARTIAL FINAL

38 S/R ACCOUNT NUMBER 39 S/R VOUCHER NUMBER 40 PAID BY

41a I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT 42a RECEIVED BY (Print)

41b SIGNATURE AND TITLE OF CERTIFYING OFFICER 41c DATE 42b RECEIVED AT (Location)

42c DATE REC'D (YY/MM/DD) 42d TOTAL CONTAINERS

STATEMENT OF WORK
(Contract# CPSC-D-12-0001 / Task Order 0019)
Exposure Assessment: Mold Exposure Prioritization Tool

1. Description of Services

The Contractor shall provide all necessary personnel, materials, and facilities to reassess and redesign the mold exposure prioritization tool completed under contract CPSC-D-12-0001, Task Order 0013 (CPSC, 2015c). The Contractor shall also incorporate the mold basic characteristics and hazard information from Task Order 0013 (CPSC, 2015a; CPSC, 2015b) with the exposure prioritization tool. The resulting tool will produce two results that CPSC staff will use in investigations of mold-related incidents. One result of the tool will reflect the hazard potential and one will reflect the exposure potential.

The tool will be based on a qualitative/semi-quantitative prioritization logic incorporating factors of exposure, as in the existing mold exposure prioritization tool, factors of mold identification, and factors of potential health effects, as available and documented in the Task Order 0013 deliverables for the mold species listed in Table 1 (CPSC, 2015a; CPSC, 2015b; CPSC, 2015c). The Contractor shall work with the CPSC Contracting Officer's Representative (COR) to complete this work.

Table 1: Mold species to be included.

Mold Species
Alternaria
Aspergillus
Chaetomium,
Claudosporium
Dicyma
Epicoccum
Malassezia
Penicillium
Phoma
Stachybotrys
Zygomycetes

The Contractor shall:

1. Meet with the COR by phone following the completion of each of the subtasks listed below (Section 8) to discuss progress on the task.
2. Meet with the COR to modify the existing mold exposure prioritization tool. The existing interface format and operational platform will remain, and the product categories, weighting factors, prioritization/subfactors, other pertinent components of the tool, and questionnaire will be refined and expanded by the COR and the Contractor to incorporate CPSC-specific needs. CPSC will provide the previous comments on the Task order 0013 report (June 2015) to be considered in this redesign.

- a. Additional priority factors will be described by CPSC and added to the existing listings. These will be associated with existing questions on the questionnaires or with new questions supplied by CPSC, and the Contractor shall incorporate into the tool.
 - b. Priority factors (existing and new) will be given new modifying weighting factors, as needed. CPSC will provide the weighting factor amendments for existing or new factors, and those will be incorporated into the tool.
3. Add the mold species identification and health effects parameters (the Mold Hazard Prioritization component) to the Access®-based tool of modules based on the basic characteristics and hazard information from Task Order 0013.
 - a. A rough decision tree will be made that identifies possible genera for the mold, based on consumer-reported descriptors. Based on the identified potential genera, the tool will provide potential health effects and a qualitative assessment of the degree of certainty associated with the possible health effects.
 - i. An example output is that this genus has the potential to release toxins that are known human liver carcinogens with data in animals but not in humans or this genus is known to cause asthma in humans.
 - b. The Contractor shall base the hazard characterization of each genus on volumes I and III of the Task 013 report (CPSC, 2015a; CPSC, 2015b), with minimal to no additional reference to the literature. The hazard result will be the worst-case potential answers to each of the header categories of Table 2 of the Health Effects Volume from Task 013 (CPSC, 2015b).
4. Provide for record analysis and retrieval from the tool using the practicalities of the existing tool's platform. The tool will:
 - a. Be searchable for consumer complaints, characteristics of mold, product identification, location, and other factors of interest to the CPSC COR.
 - b. Report trend analysis based on product, mold, health effect or other factors, within the capacity of the Access™ platform.
 - c. Provide for product identification refinement by using the CPSC National Electronic Injury Surveillance System (NEISS) codes provided by CPSC staff.
 - d. Expand the tool's reporting features by providing a format that is useful to CPSC staff in their mold investigations.
5. Prepare a pilot of the modified mold prioritization tool, including the exposure, hazard, and integrative components, to the CPSC COR for review and usability.
6. Incorporate CPSC COR comments and test all of the components of the tool for functionality and completeness before tool is final.
7. Submit a report, functional tool, and references to the CPSC COR. The Contractor shall:
 - a. Prepare a report that describes the platform on which the tool operates and a schematic of the tables, links, and operational elements of Access™ utilized for the tool operation. The report shall also contain an updated user operation guide

with changes to the exposure tool and new elements of the hazard portion of the tool incorporated, such as interview questions on mold identity and reported effects. The decision tree leading to mold identification shall also be provided. The report shall also address key assumptions and uncertainties considered for both the exposure and hazard portions of the tool.

- b. Provide a functional tool as an Access™ database.
- c. Provide copies of references cited, not provided by the CPSC staff, in electronic form when the task is completed.

2. Contract Type

This is a firm fixed price task order.

3. Background

Federal agencies including the Centers for Disease Control and Prevention (CDC) and the Environmental Protection Agency (EPA) have issued warnings and guidance documents on the dangers of mold in the home and strategies to reduce mold exposures, particularly to children (CDC, 2014). Consumer exposure to mold on a product may be more frequent and direct than exposures that might occur in a building setting, making remediation even more important for products with mold contamination. Mold exposure has been associated with a variety of health effects, including irritant and allergic reactions, such as asthma and other respiratory conditions (EPA, 2014). Recently, there have been voluntary recalls of products due to the development of mold, and the CPSC 360 database contains over a thousand complaints from consumers regarding the presence of mold.

Based on health effects reported and the amount of consumer product-related incidents received, CPSC contracted with Toxicology for Excellence in Risk Assessment (TERA) under contract CPSC-D-12-0001, Task Order 0013 to better characterize mold characteristics, health effects and toxicity. A mold exposure prioritization tool was also designed in Task Order 0013 for use in CPSC investigations. This exposure prioritization tool was designed to assist CPSC in accurately and efficiently responding to entry level mold reports. Under the Task Order's budget and timeframe, TERA incorporated suggestions provided by the COR into the exposure prioritization tool; however, more refinements are necessary for this to be useful for CPSC activities. Also, incorporating the mold characteristics and hazard information with the exposure tool will provide more information needed for CPSC staff to investigate mold-related incidents.

4. Objective

The objective of this task is to produce a functional tool that results in hazard and exposure potential outputs by reassessing and redesigning the existing exposure prioritization tool and incorporating the mold basic characteristics and hazard data information obtained in Task Order 0013. Specially, the exposure prioritization tool's categories, factors, subfactors, weighting, and questionnaire will be expanded and structured to provide information pertaining to mold on consumer products. To provide CPSC staff with hazard potential outputs, the mold basic characteristics and hazard data information that were collected in Task Order 13 will be incorporated into this tool. Based on a decision tree, the genera for the consumer-reported mold incident will be determined and potential health effects will be provided. The overall output of

the tool will be revisited to provide appropriate guidance for CPSC staff to determine if a mold-contaminated product and the mold species present on the product present a hazard for the consumer.

5. Period of Performance

September 15, 2016 through September 14, 2017.

6. Government Furnished Materials

If needed, the CPSC COR shall provide electronic copies of the Task Order 0013 reports and database tool.

7. Deliverables or Performance

The Contractor shall provide the requested information in the form of a written report and functional database to the CPSC COR within 214 calendar days after the initial meeting. The report shall be emailed to the CPSC COR in a Microsoft Word file and the database in a Microsoft Access file.

8. Delivery Schedule

Item(s)	Quantity	Delivery or Performance
The CPSC Contracting Officer's Representative (COR) and Contractor shall meet by telephone to discuss and initiate the project.	1 meeting	Within 7 calendar days of task order 0019 award date.
The CPSC COR shall provide electronic copies of Task Order 13 reports and database tool.	3 reports; 1 database tool	Within 7 calendar days of task order 0019 award date.
The CPSC COR shall provide a list of references, websites, or CPSC operations to be considered in the design to the Contractor.	As appropriate	Within 14 calendar days of task order 0019 award date.
The CPSC COR shall be available to consult with the Contractor by teleconference.	As appropriate	At the completion of each subtask, and as needed.
The CPSC COR and Contractor shall meet by teleconference to discuss the preliminary design and changes to the elements that make up the exposure tool (i.e., factors, subfactors, and weighting) and how to incorporate the mold basic characteristic and hazard information into the overall tool.	1 – 5 meetings, or as needed	As needed

The Contractor shall submit a draft design report in electronic format to the CPSC COR.	1 draft design report	Within 75 calendar day of initial meeting.
The CPSC COR shall provide the draft design report edited by "Track Changes" to the Contractor.	1 draft design report	Within 14 calendar days after receipt of the draft design report.
The Contractor shall revise the draft design report as appropriate and submit the draft final design report to the CPSC COR.	1 draft final design report	Within 21 calendar days after receipt of comments on the draft design report.
The CPSC COR shall provide the draft final design report edited by "Track Changes" to the Contractor.	1 draft final design report	Within 14 calendar days following receipt of the draft final report.
The Contractor shall submit a draft report (including final design report) and functional prioritization database tool with overall prioritization and reporting functions to the CPSC COR.	1 draft report; 1 draft database tool; 1 final design report	Within 90 calendar days after the CPSC COR commented on the draft final design report.
The CPSC COR shall provide the draft report and database tool edited by "Track Changes" or type-written comments to the Contractor.	1 draft report; 1 draft database tool	Within 14 calendar days after receipt of the draft report and database tool.
The Contractor shall revise the draft report and database tool as appropriate. The Contractor shall submit the draft final report and database tool to the CPSC COR.	1 draft final report; 1 draft final database tool	Within 30 calendar days after receipt of comments on the draft report and database tool.
The CPSC COR shall provide the draft final report and database tool edited by "Track Changes" or type-written comments to the Contractor.	1 draft final report; 1 draft final database tool	Within 14 calendar days following receipt of the draft final report and database tool.
The Contractor shall revise the draft final report and database tool as appropriate. The Contractor shall provide the final report and functioning final database tool.	1 final report; 1 final database tool	Within 7 calendar days after receipt of comments on the draft final report and database tool.
The final report and database tool shall be reviewed by the CPSC COR. Inspection and acceptance of the final report.	1 final report; 1 final database tool	Within 7 calendar days after receipt of the final report and database tool.

9. Place of Delivery

U.S. Consumer Product Safety Commission
Directorate for Health Sciences
5 Research Pl
Rockville, MD 20850

CPSC Contracting Officer Representative and contact information:
Melanie B. Biggs, PhD
mbiggs@cpsc.gov
301-987-2593

10. Inspection and Acceptance

The draft report and database tool submitted to CPSC shall be reviewed within 14 calendar days of its receipt for questions and/or comments. If returned to the Contractor as a result of the review, the Contractor shall address and/or revise their report and database tool accordingly and return the draft final versions to the COR within 30 calendar days of receipt. The CPSC COR shall then have 14 calendar days to review the draft final report and database tool. If necessary, any additional questions and/or comments from the CPSC COR shall be addressed by the Contractor within 7 calendar days of receipt. The CPSC COR shall then have 7 calendar days for final inspection and acceptance of the final report and complete, functioning database tool.

11. Requirement for CPSC Clearance

The final report and database are the property of the CPSC. The Contractor shall not publish the final report or database, present the information at scientific meetings, or in any other way make the findings public in any form without the written permission of the COR. Any publication shall be cleared following CPSC procedures, as outlined in the Consumer Product Safety Act.

12. References

- CDC, 2014. Mold General Information. Centers for Disease Control.
<http://www.cdc.gov/mold/basics.htm>
- CPSC. 2015a. Review of the Health Risks of Mold. Basic Mold Characteristics. Toxicology Excellence for Risk Assessment.
- CPSC. 2015b. Review of the Health Risks of Mold. Health Effects of Molds and Mycotoxins. Toxicology Excellence for Risk Assessment.
- CPSC. 2015c. Review of the Health Risks of Mold. Mold Exposure Tool. Toxicology Excellence for Risk Assessment.
- EPA, 2104. Molds and Moisture. Environmental Protection Agency.
<http://www.epa.gov/mold/index.html>
- Mudarri D, Fisk WJ. 2007. Public health and economic impact of dampness and mold. *Indoor Air* 17(3): 226-235.