EPA

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number: 0-04

☐ Other ☐ Amendment Number:

Contract Number	Contract Period	Title of Work Assignment/SF Site Name
EP-D-14-032	09/16/2014 To 09/15/2019 Base X Option Period Number	BenMAP-CE Training

Contractor: INDUSTRIAL ECONOMICS, INCORPORATED

Specify Section and paragraph of Contract SOW: Section 14

Purpose:
- [X] Work Assignment
- [ ] Work Assignment Amendment
- [ ] Work Plan Approval
- [ ] Work Assignment Close-Out
- [ ] Incremental Funding

Period of Performance: From 03/15/2015 To 09/15/2015

Comments:
THE WORK ASSIGNMENT INCLUDES 150 HOURS FOR PREPARATION OF THE WORKPLAN/COST ESTIMATE AND TO BEGIN THE WORK ASSIGNMENT. THE CONTRACTOR SHALL PROPOSE THE HOURS NECESSARY TO COMPLETE ALL TASKS. NO PREVIOUSLY PERFORMED WORK SHALL BE DUPLICATED.
SEE ATTACHED SOW

☐ Superfund — Accounting and Appropriations Data — [X] Non-Superfund

Note: To report additional accounting and appropriations date use EPA Form 1900-69A.

SFO (Max 2) ☐

Line	DCN (Max 6)	Budget/FY (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class (Max 4)	Amount (Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1										
2										
3										
4										
5										

Authorized Work Assignment Ceiling

Contract Period: 09/16/2014 To 09/15/2019 Cost/Fee: LOE:

This Action:

Total:

Work Plan / Cost Estimate Approvals

Contractor WP Dated: Cost/Fee: LOE:

Cumulative Approved: Cost/Fee: LOE:

Work Assignment Manager Name Neal Fann (Signature) (Date)	Branch/Mail Code: Phone Number 919-541-0209 FAX Number:	
Project Officer Name Carolyn Blake (Signature) (Date)	Branch/Mail Code: Phone Number: 919-541-5256 FAX Number:	
Other Agency Official Name (Signature) (Date)	Branch/Mail Code: Phone Number: FAX Number:	
Contracting Official Name Natalia Fisher-Jackson NATALIA FISHER-JACKSON Digitally signed by NATALIA FISHER-JACKSON DN: c=US, o=U.S. Government, ou=USEPA, ou=Staff, cn=NATALIA FISHER-JACKSON, dnQualifier=0000016076 Date: 2015.03.19 08:10:32 -04'00' (Signature) (Date)	Branch/Mail Code: Phone Number: 919-541-3564 FAX Number:	

I. TITLE: Logistical Support for International BenMAP-CE Training Classes

II. WORK ASSIGNMENT MANAGER (WAM):

Neal Fann
EPA, OAQPS, OAR
C539-07
RTP, NC 27711
919-541-0209

III. LEVEL OF EFFORT:

Hours :
Duration: 7 months (March 15th to September 14th)

IV. BACKGROUND:

In 2003 the U.S. EPA contracted with a developer to create version 1.0 of the environmental Benefits Mapping and Analysis Program (BenMAP). That tool systematized a number of the steps of a health impact and benefits analysis that had previously been performed using the Criteria Air Pollutant Modeling System (CAPMS). Subsequent versions of BenMAP incorporated a number of new features, including a database that could be modified by end-users, more spatially resolved baseline health data and a broader array of health impact functions. The U.S. EPA has used BenMAP to estimate the avoided human health impacts and economic benefits of a number of air quality policies, including the 2002 Non-Road Diesel rule, the 2004 Clean Air Interstate Rule, and the 2011 Mercury and Air Toxics rules, among many others. Over 50 researchers have published over 25 journal articles using BenMAP.

Beginning in 2011, the U.S. EPA began redeveloping the tool from the ground-up to meet two goals: (1) create an open-source software platform so that anyone could see the software code and improve the program; (2) improve the performance, accessibility, capabilities and usability of the software. In the Fall of 2013, after iterating through dozens of beta versions, the U.S. EPA released version 1.0 of the environmental Benefits Mapping and Analysis Program—Community Edition (BenMAP-CE). In the winter of 2015, the Agency released version 1.1 of the software, which addressed a number of bugs identified in version 1.0 and incorporated several new features designed to make it easier for non-U.S. analysts to apply the program.

In 2014, the Agency delivered two 1-day BenMAP-CE training classes—one in Seattle, Washington that was affiliated with the International Society for Environmental Epidemiology conference and one in Colombo, Sri Lanka that was affiliated with the Better Air Quality conference. Having piloted the 1-day training

class, the BenMAP-CE team now looks to develop a 3-day class that will address more completely the practice of using BenMAP-CE in a non-U.S. setting.

V. STATEMENT OF WORK (SOW):

The Contractor shall conduct the following tasks in accomplishing the objective of this Work Assignment.

Task #1: Develop Work Plan

The contractor shall develop a work plan for this work assignment, including a cost estimate. The contractor shall submit the proposed work plan no later than twenty (20) days following approval and receipt of this Work Assignment. In addition, the contractor shall provide monthly progress reports to be submitted with the invoice in the manner described in this contract.

Task #2: Provide Logistical Support for Advanced BenMAP-CE Training Class

The Contractor shall provide logistical support for two international BenMAP-CE training classes. The first class shall be delivered in Santiago, Chile. The second class shall be delivered in either Sao Paulo or Bangkok Thailand. Logistical support shall include any and all of the following tasks:

- Prior to the class:
  - Correspond with students prior to the class, registering students for the class and responding to logistical questions.
  - Participate in periodic webinars with those hosting the training class in Santiago and Thailand
  - Gather EPA-developed course materials, including paper copies, binders, USB flash drives in which electronic course materials are stored, course certificates of completion and class surveys.
  - Using data supplied by the WAM, develop self-paced training exercises for 7 WAM-specified topics, including: using the Global Burden of Disease module; importing formatted country-specific data; importing unformatted country-specific data; aggregating, pooling and valuing; exporting and importing .bdbx files; running the command-line interface; running the PopSim tool.
  - Test each of the self-paced training exercises. Correct the training exercises as needed.
  - Subject to WAM approval, invite up to 3 researchers to participate in each training class. Both book and pay for each researcher's travel, including flights, hotel and conference fees.

- To the extent needed, identify and procure a conference room and all necessary equipment, including an LCD projector, lunch and refreshments.

- During the class:
  - Provide limited technical assistance on operating the BenMAP-CE tool to students during the course.
  - Deliver a limited number of class modules for topics in which the contractor is expert, including (but not limited to) operating and interpreting results from the PopSim tool.
  - Document the questions received during the BenMAP-CE class.
- After the class:
  - Summarize the class discussion and identify ways in which the class may be improved.

Deliverables:
2.1 Provide logistical support for training class #1
2.2 Provide logistical support for training class #2

VI. REPORTING REQUIREMENTS:

All reports shall be in accordance with contract specifications. The Contractor shall submit work products in electronic as well as hard copy form. In addition, the Contractor shall deliver to the WAM each draft and final report in electronic format that is readable by OAQPS's windows-based word-processing (Microsoft Word 2007), graphics (Microsoft PowerPoint 2007), spreadsheet (Excel 2007), and database (Access 2007) programs.

III. DELIVERABLES:

The Contractor shall adhere to the following schedule:

Task	Deliverable	Delivery Schedule
1	Cost estimate	20 days after effective date of WA
2	Logistical support for training classes	4-6 months after effective date of WA