

**FORSYTH COUNTY  
BOARD OF COMMISSIONERS**

**BRIEFING  
DRAFT**

MEETING DATE: FEBRUARY 15, 2018

AGENDA ITEM NUMBER: 5 A+B

- SUBJECT:**
- A. RESOLUTION AUTHORIZING EXECUTION OF NECESSARY DOCUMENTS TO RECEIVE GRANT FUNDS FROM THE NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES, DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION FOR MOSQUITO AND TICK SUPPRESSION PREPAREDNESS ACTIVITIES**
  - B. AMENDMENT TO FY 2017-2018 BUDGET ORDINANCE TO APPROPRIATE GRANT FUNDS FROM THE NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES, DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION TO THE FORSYTH COUNTY DEPARTMENT OF PUBLIC HEALTH  
(FORSYTH COUNTY DEPARTMENT OF PUBLIC HEALTH)**

**COUNTY MANAGER'S RECOMMENDATION OR COMMENTS:**

**SUMMARY OF INFORMATION:**

The Forsyth County Department of Public Health has received \$16,000.00 in additional funding from the North Carolina Department of Health and Human Services, Division of Public Health, Environmental Health Section for Mosquito and Tick Suppression Preparedness Activities to develop capacity to strengthen vector surveillance and control in the County and region. The funding period for these funds is January 1, 2018 through June 30, 2018.

Funds will be used to purchase equipment and supplies needed to support vector surveillance and control, and for travel expenses related to conferences and regional networking events related to Mosquito and Tick Suppression.

The additional \$16,000.00 in non-recurring grant funds will support the Health Department's Mosquito and Tick Suppression Preparedness initiatives.

ATTACHMENTS:     YES     NO

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

COUNTY MANAGER

**RESOLUTION AUTHORIZING EXECUTION OF NECESSARY DOCUMENTS TO RECEIVE GRANT FUNDS FROM THE NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES, DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION FOR MOSQUITO AND TICK SUPPRESSION PREPAREDNESS ACTIVITIES (FORSYTH COUNTY DEPARTMENT OF PUBLIC HEALTH)**

**BE IT RESOLVED** by the Forsyth County Board of Commissioners that the Chairman or County Manager and the Clerk to the Board are hereby authorized to execute, on behalf of Forsyth County, necessary documents for the benefit of its Department of Public Health, to receive grant funds in the amount of \$16,000.00 from the North Carolina Department of Health and Human Services, Division of Public Health, Environmental Health Section, for Mosquito and Tick Suppression Preparedness Activities, subject to a pre-audit certificate thereon, by the County Chief Financial Officer, if applicable, and approval as to form and legality by the County Attorney.

Adopted this the 15<sup>th</sup> day of February 2018.

**FORSYTH COUNTY, NORTH CAROLINA  
AMENDMENT TO  
2017-2018 BUDGET ORDINANCE**

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**FROM: BUDGET & MANAGEMENT**

**MEETING DATE:** February 15, 2018

**EXPLANATION:**

The Forsyth County Department of Public Health has received \$16,000.00 in additional funding from the North Carolina Department of Health and Human Services, Division of Public Health, Environmental Health Section for Mosquito and Tick Suppression Preparedness Activities to develop capacity to strengthen vector surveillance and control in the County and region. The funding period for these funds is January 1, 2018 through June 30, 2018.

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The additional \$16,000.00 in non-recurring grant funds will support the Health Department's Mosquito and Tick Suppression Preparedness initiatives.

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**BE IT ORDAINED BY THE FORSYTH COUNTY BOARD OF COMMISSIONERS THAT THE FISCAL YEAR 2017-2018 BUDGET ORDINANCE IS HEREBY AMENDED AS FOLLOWS:**

INCREASE:	<u>SECTION 1. REVENUES</u>	
	INTERGOVERNMENTAL	<u>\$16,000</u>
INCREASE:	<u>SECTION 2. APPROPRIATIONS</u>	
	GENERAL FUND	<u>\$16,000</u>
	PUBLIC HEALTH	

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**NATURE OF TRANSACTION:**

- Additional Revenue Available
- Transfer within Accounts of Same fund
- Other: Appropriate Restricted Fund Balance

**APPROVED BY BOARD OF COUNTY COMMISSIONERS AND ENTERED ON MINUTES DATED \_\_\_\_\_**  
**AGENDA ITEM NUMBER \_\_\_\_\_**

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# Division of Public Health Agreement Addendum FY 17-18

Forsyth County Department of Public Health  
Local Health Department Legal Name

Environmental Health Section /  
Food Protection and Facilities Branch  
DPH Section / Branch Name

908 Mosquito and Tick Suppression  
Activity Number and Description

Larry Michael (919) 707-5858  
larry.michael@dhhs.nc.gov  
DPH Program Contact  
(name, phone number, and email)

12/01/2017 – 05/31/2018  
Service Period

\_\_\_\_\_  
DPH Program Signature Date  
(only required for a negotiable agreement addendum)

01/01/2018 – 06/30/2018  
Payment Period

**FORSYTH COUNTY**

- Original Agreement Addendum  
 Agreement Addendum Revision # \_\_\_\_\_

BY: \_\_\_\_\_  
**County Manager**

**I. Background:**

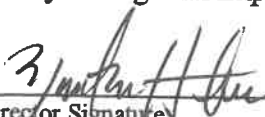
To remain prepared for the continuing threat of mosquito and tick-borne diseases in North Carolina, such as Zika virus, West Nile virus, LaCrosse Encephalitis, Powassan virus, and Lyme disease, it is imperative to give environmental health professionals the tools to identify and control vector arthropods in their jurisdictions.

In addition, severe nuisance mosquito issues that exist in high tourist areas and which occur after hurricanes pose a threat both to the quality of life and to the economies of several regions of North Carolina.

The North Carolina Department of Health and Human Services (NCDHHS) Environmental Health Section is funding 10 local health departments across the state to develop and improve local Integrated Mosquito and Tick Management programs. These 10 local health departments—designated as Counties of Regional Expertise—are Albemarle Regional Health Services, Carteret County Health Department, Forsyth County Department of Public Health, Haywood County Health & Human Services Agency, Mecklenburg County Health Department, Nash County Health Department, New Hanover County Health Department, Pitt County Health Department, Transylvania County Department of Public Health, and Wake County Human Services.

**II. Purpose:**

This Agreement Addendum provides funding for the Local Health Department (LHD) to become a County of Regional Expertise on mosquito and tick surveillance and control. Specifically, the State

  
Health Director Signature (use blue ink)

1/3/18  
Date

Local Health Department to complete: (if follow-up information is needed by DPH)	LHD program contact name: _____
Phone number with area code: _____	_____
Email address: _____	_____

Signature on this page signifies you have read and accepted all pages of this document.

expects the LHD to use the funds to become competent in operating all common surveillance methods, contribute to baseline state and national mosquito knowledge, and effectively suppress mosquitoes using Integrated Mosquito Management methods. This will allow them to lead efforts in their region, and aid other local health departments when needed.

### III. Scope of Work and Deliverables:

#### A. Baseline Vector Surveillance

The Local Health Department shall perform the following surveillance strategy:

1. Set at least one each of the following traps, one time, during the month of May 2018:
  - a. one CO<sup>2</sup>-baited Light Trap OR BG Sentinel,
  - b. one Gravid Trap,
  - c. one Landing Rate Count (Landing Counts may be used only when risk of mosquito-borne disease is negligible)
  - d. five Ovicups (to be used for state-sponsored tests at East Carolina University, Western Carolina University, or North Carolina State University. (Each Local Health Department will be assigned to send mosquito eggs to one of these universities, depending on the availability of laboratory space at each university). If the Local Health Department is participating in the Invasive Mosquito Project, the work performed for that Project fulfills this requirement.
2. Identify the collected mosquitoes to species in-house, or arrange identification by an outside party (e.g., local university, nearby county vector control program, or private contractor).
3. If *Ae. aegypti* or container mosquitoes resembling *Ae. aegypti* (adults or larva) are collected, the LHD must submit them for verification to one of the state's university partners. one each of the following traps, one time, during the month of May 2018:
4. Record all 2018 mosquito collections data in MosquitoNet, including Landing Rate Counts.

#### B. Additional Vector Surveillance, Vector Control, and Education

The Local Health Department shall perform at least one of the following activities. Activities which result in improving vector suppression are preferred (e.g., surveillance which results in establishing action thresholds, evaluation of suppression methods, and suppression equipment):

1. Enhanced Vector Surveillance:
  - a. Fund University Partners to conduct regular mosquito surveillance or identification (e.g., more than occasional assistance with identification).
  - b. Conduct tick surveillance using standard methodologies (tick drags or counts) with species identified and species counts recorded. All collections shall be recorded in, or converted to, a format compatible with MosquitoNet. (See an example of this format on Attachment 1).
  - c. Perform pathogen testing on mosquito and tick specimens, as determined in consultation with the State Public Health Entomologist.
  - d. Conduct insecticide resistance testing or subcontract with a local university or company for them to conduct insecticide resistance testing using the CDC Bottle Bioassay method ([https://www.cdc.gov/parasites/education\\_training/lab/bottlebioassay.html](https://www.cdc.gov/parasites/education_training/lab/bottlebioassay.html)).
  - e. Conduct surveillance by participating in the Invasive Mosquito Project (<http://www.citizenscience.us/imp/>).
  - f. Purchase surveillance equipment, including traps and laboratory equipment (e.g., microscopes and bioassay bottles) and additional trapping or testing supplies (e.g., dry ice).

- g. Subcontract with external partners (e.g., university partners or contractors) to conduct vector surveillance activities on behalf of the Local Health Department, following the same methods as described in this Agreement Addendum.
  - h. Aid other local health departments performing mosquito or other vector surveillance activities. This includes providing technical expertise and consultation on methods and best practices.
  - i. Train the Local Health Department staff or other vector program staff in mosquito and tick identification and suppression.
  - j. Participate in events that offer training in vector surveillance, such as the AMCA, CDC, and NCMVCA Annual Meetings.
- 2. Vector Control:**
- a. Purchase equipment and supplies (e.g., backpack and trailer-mounted barrier sprayers, lethal ovitraps, ATSB [attractive toxic sugar bait] traps, larvicides, adulticides, mapping and data collection tools) for conducting vector control activities.
  - b. Calibrate and repair of existing equipment, provided the equipment is used for mosquito and tick control activities.
  - c. Create one of the following:
    - 1. Mosquito Control Districts (See NC §130A-352 Creation and purpose of mosquito control districts, available at [http://www.ncga.state.nc.us/EnactedLegislation/Statutes/PDF/BySection/Chapter\\_130A/GS\\_130A-352.pdf](http://www.ncga.state.nc.us/EnactedLegislation/Statutes/PDF/BySection/Chapter_130A/GS_130A-352.pdf)); or
    - 2. County-based mosquito and tick suppression programs.
  - d. Subcontract with private companies to perform mosquito and tick suppression.
  - e. Determine “spray thresholds” for larviciding and adulticiding, and other activities resulting in increased effectiveness of suppression tools.
  - f. Subcontract with external partners (e.g., university partners or contractors) to conduct vector suppression activities on behalf of the Local Health Department, following the same methods as described in this Agreement Addendum.
  - g. Aid other local health departments performing mosquito or other vector control activities. This includes providing technical expertise and consultation on methods and best practices.
  - h. Participate in events that offer training in vector control, such as the AMCA, CDC, and NCMVCA Annual Meetings.
- 3. Education:**
- a. Educate the public about tick and mosquito bite avoidance using educational and public health campaigns designed by the Local Health Department or adapted for Local Health Department use from other sources (e.g., AMCA, CDC, PAHO, WHO). Educational information can be provided to the public via printed leaflets or flyers, billboards, radio advertisements, or other methods deemed most effective by the local health department. The majority of the educational information shall be in English and Spanish, and also may be in another language of importance in the area.
  - b. Educate the public about specific vector-borne diseases of importance in its geographic area. Consult with other staff members within the Local Health Department or the Communicable Disease Branch to identify which conditions have the greatest impact on the community.
  - c. Aid other local health departments in their education efforts by providing educational materials and other assistance.

**IV. Performance Measures/Reporting Requirements:**

**A. Baseline and Enhanced Vector Surveillance**

The Local Health Department shall submit the following to the State Public Health Entomologist by April 15, 2018:

1. A surveillance summary of the 2017 field season (i.e., March–October 2017) or a statement specifying that no surveillance was done. This surveillance summary shall include:
  - a. Surveillance data converted to the format used by MosquitoNet  
The document *MosquitoNet XLSX Schema Description* includes specific details about the data format required by CDC can be found at <https://wwwn.cdc.gov/Arbonet/MosquitoNET/>
  - b. Descriptions of mosquito traps and tick collection methods used.
  - c. General mosquito surveillance strategy used (e.g., “six CDC light traps set weekly from April through October in six static locations, ten ovitraps set bi-weekly from April through October, four gravid traps set monthly” or “two BG sentinels, set based on mosquito complaints or during enforcement actions”)
  - d. Results of any pathogen testing
  - e. Results of any Insecticide Resistance Testing
  - f. A statement regarding whether *Ae. aegypti* or container mosquitoes resembling *Ae. aegypti* (adults or larva) were collected and submitted for verification to one of the university partners.
2. A summary statement of what mosquito and tick surveillance are planned for the 2018 season (i.e., March–October 2018), using the format described in Subparagraph 1 above.
3. A statement regarding the Local Health Department’s involvement in the Invasive Mosquito Project. (The Invasive Mosquito Project is a citizen science project aimed at monitoring invasive container-inhabiting mosquito species across the United States.)
4. A written summary of the following:
  - a. Mosquito and tick identification training events attended
  - b. External partners funded (e.g., university partners) to conduct vector surveillance activities
  - c. Aid provided to other local health departments performing mosquito or other surveillance activities

**B. Vector Control**

The Local Health Department shall submit the following to the State Public Health Entomologist by April 15, 2018:

1. A description of equipment calibration conducted during the 2017 season, and plans for the 2018 season.
2. A description of the spray thresholds used for larviciding and adulticiding during the 2017 season, and any plans to change them in the 2018 season.
3. A written summary of:
  - a. Training for vector control activities paid for to date during this Service Period
  - b. Vector control contracts
  - c. Aid other local health departments performing mosquito or other vector control activities.

**C. Education**

The Local Health Department shall submit the following to the State Public Health Entomologist by April 15, 2018:

1. A description of all materials created by the Local Health Department. Such materials include but are not limited to fliers, school outreach materials, and social media recordings such as videos. The materials description shall include:
  - a. A list of what educational materials were created
  - b. Numbers of materials distributed
  - c. Number of billboards
  - d. Number of radio spots
  - e. Number of online postings
2. Electronic copies of all new educational materials and copies of externally acquired materials.

**D. Expense Summary**

The Local Health Department shall submit the following to the State Public Health Entomologist by June 15, 2018:

1. A summary of how the Agreement Addendum Activity 908 funds were spent.

**V. Performance Monitoring and Quality Assurance:**

The State Public Health Entomologist shall review the reports for accuracy and completeness. Missing or incomplete data will be addressed with individual counties via phone conference or site visit. Complications will be addressed by the entomologist on a case by case basis. Failure to provide complete data may result in a corrective action plan being issued and could result in loss of future funding.

**VI. Funding Guidelines or Restrictions:**

**A. Requirements for pass-through entities:** In compliance with 2 CFR §200.331 – *Requirements for pass-through entities*, the Division provides Federal Award Reporting Supplements to the local health department receiving federally funded Agreement Addenda.

1. **Definition:** A Supplement discloses the required elements of a single federal award. Supplements address elements of federal funding sources only; state funding elements will not be included in the Supplement. Agreement Addenda (AAs) funded by more than one federal award will receive a disclosure Supplement for each federal award.
2. **Frequency:** Supplements will be generated as the Division receives information for federal grants. Supplements will be issued to the local health department throughout the state fiscal year. For federally funded AAs, Supplements will accompany the original AA. If AAs are revised and if the revision affects federal funds, the AA Revisions will include Supplements. Supplements can also be sent to the local health department even if no change is needed to the AA. In those instances, the Supplements will be sent to provide newly received federal grant information for funds already allocated in the existing AA.

**B. Travel costs associated with participating in vector surveillance and control training is an allowable expense.**



DPH-Aid-To-Counties

For Fiscal Year: 17/18

Budgetary Estimate Number : 0

Activity 908	AA	1163 4801 00	Proposed Total	New Total
Service Period		12/01-06/31		
Payment Period		01/01-06/30		
01 Alamance		0	0	0
D1 Albemarle	* 0	16,000	16,000	16,000
02 Alexander		0	0	0
04 Anson		0	0	0
D2 Appalachian		0	0	0
07 Beaufort		0	0	0
09 Bladen		0	0	0
10 Brunswick		0	0	0
11 Buncombe		0	0	0
12 Burke		0	0	0
13 Cabarrus		0	0	0
14 Caldwell		0	0	0
16 Carteret	* 0	16,000	16,000	16,000
17 Caswell		0	0	0
18 Catawba		0	0	0
19 Chatham		0	0	0
20 Cherokee		0	0	0
22 Clay		0	0	0
23 Cleveland		0	0	0
24 Columbus		0	0	0
25 Craven	* 0	2,000	2,000	2,000
26 Cumberland		0	0	0
28 Dare		0	0	0
29 Davidson		0	0	0
30 Davie		0	0	0
31 Duplin		0	0	0
32 Durham		0	0	0
33 Edgecombe		0	0	0
34 Forsyth	* 0	16,000	16,000	16,000
35 Franklin		0	0	0
36 Gaston	* 0	2,000	2,000	2,000
38 Graham		0	0	0
D3 Gran-Vance		0	0	0
40 Greene		0	0	0
41 Guilford		0	0	0
42 Halifax		0	0	0
43 Harnett		0	0	0
44 Haywood	* 0	16,000	16,000	16,000
45 Henderson	* 0	2,000	2,000	2,000
46 Hertford		0	0	0
47 Hoke		0	0	0
48 Hyde		0	0	0
49 Iredell		0	0	0
50 Jackson		0	0	0
51 Johnston		0	0	0

52 Jones			0	0	0
53 Lee			0	0	0
54 Lenoir			0	0	0
55 Lincoln			0	0	0
56 Macon			0	0	0
57 Madison			0	0	0
D4 M-T-W			0	0	0
60 Mecklenburg	*	0	16,000	16,000	16,000
62 Montgomery			0	0	0
63 Moore			0	0	0
64 Nash	*	0	16,000	16,000	16,000
65 New Hanover	*	0	23,500	23,500	23,500
66 Northampton			0	0	0
67 Onslow	*	0	2,000	2,000	2,000
68 Orange			0	0	0
69 Pamlico			0	0	0
71 Pender	*	0	2,000	2,000	2,000
73 Person			0	0	0
74 Pitt	*	0	16,000	16,000	16,000
76 Randolph			0	0	0
77 Richmond			0	0	0
78 Robeson			0	0	0
79 Rockingham			0	0	0
80 Rowan			0	0	0
D5 R-P-M			0	0	0
82 Sampson			0	0	0
83 Scotland			0	0	0
84 Stanly			0	0	0
85 Stokes			0	0	0
86 Surry			0	0	0
87 Swain			0	0	0
D6 Toe River			0	0	0
88 Transylvania	*	0	16,000	16,000	16,000
90 Union			0	0	0
92 Wake	*	0	16,000	16,000	16,000
93 Warren			0	0	0
96 Wayne			0	0	0
97 Wilkes			0	0	0
98 Wilson			0	0	0
99 Yadkin			0	0	0
<b>Totals</b>			<b>177,500</b>	<b>177,500</b>	<b>177,500</b>

Sign and Date - DPH Program Administrator <i>Lena C. Williams</i> 11-22-17	Sign and Date - DPH Section Chief <i>Jana M. Hill</i> 11-22-17
Sign and Date - DPH Contracts Office <i>W. Hill</i> 11-28-17	Sign and Date - DPH Budget Officer <i>J. Gray</i> 11/29/17

*UP*  
*11/29/17*