

**Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
February 16, 2016
Madison, Wisconsin**

DATE: February 11, 2016

TO: Chancellor Rebecca Blank, UW-Madison – Darrell Bazzell, Designated Representative
Kitty Rhodes, Secretary, DHS – Karen McKeown, Designated Representative
Cathy Stepp, Secretary, DNR – Mark Aquino, Designated Representative
Ben Brancel, Secretary DATCP –Michelle Wachter, Designated Representative
Dr. Robert Corliss, Chair
Jeffery Kindrai, Vice-Chair
James Morrison, Member
Carrie Lewis, Member
Barry Irmens, Member

Steven Geis, DNR Alternate
Gregory Pils, DNR Alternate
Scott Hildebrand, UW-Madison Alternate
Charles Warzecha, DHS Alternate
Gilbert (Gil) Kelley, DATCP Alternate

FROM: Dr. Charles Brokopp, Secretary
Director, Wisconsin State Laboratory of Hygiene



RE: Wisconsin State Laboratory of Hygiene Board of Directors Meeting
Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive
Madison, WI 53718
February 16, 2016
1:00p.m. — 4:00p.m.

C: Cynda DeMontigny
Dave Guberud
Kristine Hansbery
Linda Johnson
Jan Klawitter
Dr. Daniel Kurtycz
Steve Marshall
Marie Ruetten
John Shalkham
Dr. Peter Shult
Steve Strebel
Russ Van Gilder
David Webb
Mary Wedig

**WISCONSIN STATE LABORATORY OF HYGIENE
BOARD OF DIRECTORS
MEETING NOTICE**

Tuesday, February 16, 2016

1:00p.m. – 4:00p.m.

MEETING LOCATION

**Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive
Madison, WI 53718**

Notice is hereby given that the Wisconsin State Laboratory of Hygiene Board of Directors will convene at 1:00 p.m. on Tuesday, February 16th, 2016 at Wisconsin State Laboratory of Hygiene in Madison, Wisconsin.

Notice is further given that matters concerning Wisconsin State Laboratory of Hygiene issues, program responsibilities or operations specified in the Wisconsin Statutes, which arise after publication of this notice may be added to the agenda and publicly noticed no less than two hours before the scheduled board meeting if the board Chair determines that the matter is urgent.

Notice is further given that this meeting may be conducted partly or entirely by teleconference or videoconference.

Notice is further given that questions related to this notice, requests for special accommodations, or requests for a public appearance are addressed by the Wisconsin State Laboratory of Hygiene Administrative Offices by phone at (608) 890-0288 or in writing to the Wisconsin State Laboratory of Hygiene, 465 Henry Mall, Madison, Wisconsin, 53706.

ORDER OF BUSINESS: See agenda.

Respectfully submitted,



Charles D. Brokopp, DrPH
Secretary, Wisconsin State Laboratory of Hygiene Board of Directors
Director, Wisconsin State Laboratory of Hygiene
February 11, 2016

Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
February 16, 2016
1:00 P.M. – 4:00 P.M.

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive
Madison, WI 53718

AGENDA

****CLOSED SESSION: BOARD REPRESENTATIVES ONLY****

PERSONNEL ISSUES – Darrell Bazzell

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Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**PROCEDURAL ITEMS**

**Item 1. APPROVAL OF MINUTES**

**Description of Item:**

The draft minutes of the November 3<sup>rd</sup>, 2015 board meeting are submitted for approval.

**Suggested Board Action:**

Motion: Approve the draft minutes of the November 3<sup>rd</sup>, 2015 board meeting as submitted.

**Staff Recommendation and Comments:**

Approve draft minutes.

Once approved, minutes become part of the public record and are posted on the WSLH website: <http://www.slh.wisc.edu/about/board/board-meetings-agendas-and-minutes/>.

**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016  
1:00 P.M – 4:00 P.M.  
2601 Agriculture Drive  
Madison, WI 53718**

**UNAPPROVED MINUTES  
November 3<sup>rd</sup>, 2015**

**MEMBERS PRESENT:** Dr. Robert Corliss (Chair), Jeffery Kindrai (Vice-Chair), Charles Warzecha (on behalf of Karen McKeown), Scott Hildebrand (on behalf of Darrell Bazzell), Barry Irmen, Gil Kelley (on behalf of Michelle Wachter), Steve Geis (on behalf of Mark Aquino), James Morrison, Carrie Lewis, and Dr. Charles Brokopp

**WSLH STAFF PRESENT:** Dr. Peter Shult, Dr. Daniel Kurtycz, Kristine Hansbery, Jan Klawitter, Steve Marshall, Cynda DeMontigny, Linda Johnson, Marie Ruetten, Steve Strebel, Dave Webb, and Nathaniel Javid

**DNR STAFF PRESENT:** Ron Arneson

**GUESTS PRESENT:** None

*Chair Dr. Robert Corliss called the meeting to order at 1:00 P.M.*

*Dr. Brokopp opened the meeting noting that Mark Aquino has been appointed as the official representative from the Department of Natural Resources for the WSLH Board. Unfortunately, Mr. Aquino was unable to attend today's meeting, so Steve Geis is serving on his behalf. Gil Kelley is the new director of the DATCP lab and is serving today on Michelle Wachter's behalf.*

**Item 1. APPROVAL OF MINUTES**

Approve the minutes of the June 18, 2015 board meeting as submitted. Jeff Kindrai made a motion to approve, seconded by Barry Irmen.

**Item 2. REORGANIZATION OF AGENDA**

There was no reorganization of the agenda.

### **Item 3. PUBLIC APPEARANCES**

There were no public appearances.

### **Item 4. BOARD MEMBERS' MATTERS**

Dr. Brokopp asked each of the agency leads to give a status update on what is happening at their facility. Scott Hildebrand from the Vice Chancellor for Finance and Administration's office mentioned that the Chancellor announced a supplemental compensation program for university employees. As of July 1, UW-Madison has their own, unique personnel system. We also now have the authority to do performance-based pay adjustments. Charles Warzecha, Wisconsin Department of Health Services, mentioned that they are focused on influenza this season. Mr. Warzecha advised everyone to get vaccinated. Steve Geis, Wisconsin Department of Natural Resources (DNR), mentioned that the DNR is going under a realignment process of their core function. This was made necessary due to a number of cuts inflicted on the department. Gil Kelley, Wisconsin Department of Trade and Consumer Protection did not have any news to report to the Board.

### **Item 5. SCIENTIFIC PRESENTATIONS**

#### **IT Projects Update**

- 1) Linda Johnson, Interim Director, Office of Information Systems**
- 2) Steve Marshall, Assistant Director, WSLH**

Dr. Brokopp mentioned that we have greatly invested in IT projects over the last several years with the goal of modernizing our IT function at the lab. We have come a long way from where we were five years ago and reduced our number of systems so that we are running more efficiently and effectively. Steve Marshall mentioned that a decade ago we were running on nine to ten different systems and now we are down to four. Our old systems were highly customized, and as such, they were almost impossible to upgrade. Therefore, we needed to make a change. We created a LIMS change management team. Steve presented an IT projects and upgrades timeline with status updates of "done," "begun and committed," and "contractual obligation." Our current systems are Epic's Beaker and Psyche's WindoPath for clinical systems, ChemWare's Horizon for Environmental and Occupational Systems, and our own Phoenix system along with an external LAQC system for Proficiency Testing. One of the main reasons for making these system changes was to enable electronic data exchange with our customers. We have implemented an electronic interface with some customers successfully and will continue to do so as time goes on. For small volume customers, we used a web portal exchange starting with cytogenetics in 2013 and cytology in 2015. For 2016-17, we plan to expand to microbiology, newborn screening, toxicology, and our Environmental Health Division. For large volume customers, we are using an HL7 interface. This was implemented with success in 2014: 1,566 orders were processed in the last two weeks with University Health Services. In 2015, we built the interface for University of Wisconsin Hospital and Clinics. In 2016, we plan to complete our interface with Dean/St. Mary's Hospital and may be expanding to Planned Parenthood and Montana NBS. We also made updates to our financial systems. When we completed the Beaker upgrade in 2012, we were able to upgrade to Reference Lab Billing, which is a single billing system with an automated interface allowing for online payment capabilities. We

will also improve our accounting software, Microsoft Great Plains, in spring 2016. Linda Johnson provided some IT statistics to the Board: on average day, the WSLH receives 5,400 attacks on our network that we successfully keep out. 87% of our email is spam that never reaches the user's inbox. PHI is detected and automatically encrypted. Linda also noted some ongoing IT maintenance projects including decommissioning old systems, fiber optic upgrades, cat-6 line upgrades, PC software weekly updates, instrument PC upgrades, server hardware and operating system upgrades, monthly server patching, automated processes monitoring, and building moves. IT continually supports systems for DHS and the CDC along with maintaining service management and documentation systems.

## **Influenza: WSLH Efforts to Support National Surveillance**

### **1) Dr. Pete Shult, Director, Communicable Disease Division, WSLH**

Dr. Shult provided some background on influenza to the Board. Influenza A and B are the major human pathogens. Most organisms we encounter are DNA based; Influenza, however, is RNA based. This is significant because RNA has the ability to change, and is therefore one of the most genetically unstable viruses that we know of. This poses a public health challenge.

There are two major surface proteins of A and B viruses, hemagglutinin (HA) and neuraminidase (NA). These are important to initiating and causing the replication cycle and our immune response is directed towards those surface components. Influenza has the ability to change every year, and as such, we are re-developing the vaccine every year. The estimated annual burden of seasonal influenza in the United States results anywhere between 3,000 and 49,000 deaths and 54,000 – 430,000 hospitalizations with a direct medical cost of approximately \$10.4 billion. Vaccine development typically begins in January with distribution available in September. Pandemics tend to happen with Influenza A. This is because influenza A is naturally a zoonotic infection. In nature, there are over seventeen different hemagglutinin subtypes and ten different neuraminidase subtypes. A new subtype is a necessary ingredient for a pandemic. The effects are widespread: e.g., they can affect pigs and poultry, and as a result, our food supply. Over the last century we've had four major pandemics: the Spanish influenza of 1918, H2N2 in 1957, Hong Kong Flu in 1968, and H1N1 in 2009. In 2015, there was an emergence of novel influenza A (H5Nx). Nearly \$50M chickens were affected. Although there wasn't a single human case involved with the outbreak, it raises the question of what will happen in the next flu season.

This highlights the need for a robust influenza surveillance system. The three key elements to proper surveillance are virologic, morbidity, and mortality surveillance. Health departments communicate this information to the CDC. There are four key goals in influenza virologic surveillance: provide situational awareness, detect novel or reassortant viruses, inform vaccine strain selection, and detect and monitor antiviral resistance. Testing is initially performed at the state and then sent to the CDC for analysis. The CDC can do a number of things including monitoring for antiviral resistance. In 2009, CDC's capacity was exceeded (being the reference lab to fifty states). In response, they identified a small number of public health labs who could take on some of this work. This brought forth the concept of national influenza surveillance reference centers. Wisconsin was selected as one of three centers. In Wisconsin, we're responsible for eighteen states, and study four additional states for vaccine

effectiveness. The benefits are shared mutually as we are paid per specimen. Dr. Shult mentioned that the WSLH has also been selected as a pilot site for whole genome sequencing which would signify a quantum leap in virologic surveillance. The complexity, not only in the laboratory but with IT and data transfer, is staggering. The data is sent to a cloud managed by APHL. Dr. Shult mentioned that CDD is also involved in Food CORE/PulseNET testing and f applying to be a TB WGS reference center. Dr. Shult thanked a number of people in the lab including our IT staff who helped make all of this happen.

## **Item 6. FY16 CLOSEOUT REPORT**

### **1) Marie Ruetten, Financial Manager, Wisconsin State Laboratory of Hygiene**

Marie Ruetten provided the FY16 closeout report. For total support and revenue we are under budget by \$318,167 at \$10,607,758 YTD actual compared to \$10,925,925 YTD budgeted. Most of this variance is in non-agency laboratory services revenues. The FY16 approved annual budget under total support and revenue was \$43,645,752. For expenses, we are \$5,683 over budget YTD at \$10,811,419 actual compared to \$10,805,736 budgeted. The FY16 approved annual budget with expenses was \$44,361,228. In all, our net operating income is a loss at \$323,850, and a \$225,089 loss with a modified net operating income. Compared to FY15, we are under in total support and revenue from last year by \$282,941. For expenses compared to FY15, we are under by \$1,563. This gives us a net operating loss of \$281,378 with a modified net operating loss of \$209,135.

For cash obligations, our cash balance as of September 30, 2015 is \$12,026,567. Subtracting restricted cash, deferred revenue, and encumbered payables, our available unrestricted cash balance as of September 30, 2015 is \$2,992,930.

## **Item 7. STRATEGIC MAP UPDATE**

### **1) Steve Marshall, Assistant Director, Wisconsin State Laboratory of Hygiene**

Steve Marshall presented the strategic map update to the Board. Mr. Marshall presented a graphic outlining a three-year plan with different categories including growth and sustainability, connectivity and data use, workforce enhancement, research and education support, and quality improvement. Each category includes sub-areas. Mr. Marshall went over the process with the Board including developing objective workgroups, action item charters, review processes, and timelines. Mr. Marshall described the action items for 2015-2016 in each category. Some key action items from each category include a revenue cycle administrative process review, HL7/web portal expansions, coordinating and defining research/education support, documentation tools under quality improvement, staff recognitions and meetings under staff recruitment, retention, engagement and inclusion.



## **Item 8. CONTRACTS REPORT**

### **1) Dr. Charles Brokopp, Director, Wisconsin State Laboratory of Hygiene**

We have one contract with the FDA at \$240,000/year for five years to perform radiological testing for food. We have one contract with The Nature Conservancy for \$12,600 and one contract with UT BATTELLE, LCC for \$25,000. We also have fourteen contracts with the Wisconsin Department of Health Services totaling \$3,102, 700. The grand total for contracts this fall is \$3,380, 300.

## **Item 9. DIRECTOR'S REPORT**

### **1) Dr. Charles Brokopp, Director, Wisconsin State Laboratory of Hygiene**

The next Board meeting will be on February 16, 2016. Dr. Brokopp asked the Board to review the packet for more information on the following dates. There are several key public and environmental health incidents this fall including *Blastomyces dermatiditis*, *Francisella tularensis*, HazMat assistance, *Salmonella Poona*, mumps, Campylobacter, and viral meningitis – enterovirus. We had 3,724 water systems tested, of which 122 received a boil water notice. Dr. Brokopp mentioned that we have renewed OSHA contracts totaling \$1,834,000 for the lab and \$1,955,598 for health and safety consultation. Our Cytology Program received its full three-year accreditation. The College of Agriculture and Life Sciences is the academic home for the Cytology Program. There has been an expansion of PT testing in which APHL, CDC and the WSLH provide a viral proficiency testing panel including measles and mumps PCR testing at five samples per challenge. PT testing has also been expanded with the WSLH providing a bacterial meningitis proficiency testing panel for *Haemophilus influenza*, *Streptococcus pneumonia*, *Neisseria meningitidis* at six samples per shipment. Dr. Daniel Kurtycz, WSLH Medical Director, was an editor/contributor for The Paris System for Reporting Urinary Cytology and a contributor to The Bethesda System for Reporting Cervical Cytology. Dr. Brokopp mentioned that Dr. Jennifer Laffin, Dr. Patrice Held, and Dr. Curtis Hedman received promotions and Dr. Christopher Vlangos and Dr. Catherine Paschal received clinical fellowships at our laboratory. Dr. Curtis Hedman and David Rogers published an application note for studying fluoroquinolens in fish. Recently our lab performed a CAP inspection at the New Mexico Department of Health in Albuquerque and the Cadham Provincial Lab in Winnipeg, Manitoba. CAP will be inspecting the WSLH prior to November 15<sup>th</sup>. AIHA will be inspecting the WSLH Occupational Health Lab next week. Dr. Patrice Held, as principle investigator, was awarded a \$20,000 NBS training grant by APHL. We will be hosting training webinars for newborn screening funded by a cooperative agreement with APHL and the CDC. Laura Liddicoat has been selected to receive the 2016 Robert F. Borkenstein award. Dr. Brokopp was also inducted into the Delta Omega Honorary Public Health Society.

Dr. Brokopp concluded the Director's Report by announcing his retirement in the first part of 2016. Dr. Brokopp took a moment to express his gratitude for being able to serve as Secretary of the Board and thanked the board members for the opportunity to serve with them. Dr. Brokopp mentioned he will miss the laboratory greatly but sees great things for the future of the WSLH.

**Chair Dr. Robert Corliss** made a motion to adjourn meeting at 4:00 P.M. **Carrie Lewis** seconded the motion. The motion passed unanimously and the meeting was adjourned.

Respectfully submitted by:

A handwritten signature in black ink that reads "Charles D. Brokopp, DrPH". The signature is written in a cursive style with a large initial 'C' and 'B'.

Charles D. Brokopp, DrPH  
Secretary, Wisconsin State Laboratory of Hygiene Board of Directors

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**PROCEDURAL ITEMS**

**Item 2. REORGANIZATION OF AGENDA**

**Description of the Item:**

Board members may suggest changes in the order in which agenda items are discussed.

**Suggested Board Action:**

None.

**Staff Recommendation and Comments:**

Reorganize the agenda as requested by the Board

**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016**

**PROCEDURAL ITEMS**

**Item 3. PUBLIC APPEARANCES**

**Description of the Item:**

Under the board's *Policies and Procedures* nonmembers are invited to make presentations.

**Suggested Board Action:**

Follow WSLH *Policies and Procedures*.

**Staff Recommendation and Comments:**

Follow WSLH *Policies and Procedures*.

*Per Policies and Procedures of the Wisconsin State Laboratory of Hygiene Board of Directors:*

§6.12 *Speaking privileges.* When the board is in session, no persons other than laboratory staff designated by the director shall be permitted to address the board except as hereinafter provided:

- (a) A committee report may be presented by a committee member who is not a member of the board.
- (b) A board or committee member in the course of presenting a matter to the board may request staff to assist in such a presentation.
- (c) If a board member directs a technical question for clarification of a specific issue to a person not authorized in this section, the Chair may permit such a person to respond.
- (d) The board may by majority vote or by decision of the Chair allow persons not otherwise authorized in this section to address the board if the situation warrants or the following criteria is followed:
  - (1) Written requests for public appearances on specific current agenda items shall be made to the board Secretary no later than two working days prior to the meetings. The request shall outline the reasons for the request including the subject matter to be discussed in as much detail as is feasible prior to the meeting of the board. Those requesting an appearance may, at or prior to the board meeting, provide board members copies of any written materials to be presented or a written statement of a position.
  - (2) Individual presentations will be limited to five minutes, unless otherwise authorized by the Chair.
  - (3) To schedule an appearance before the Wisconsin State Laboratory of Hygiene Board of Directors, contact the board Secretary, c/o Director, Wisconsin State Laboratory of Hygiene, 465 Henry Mall, Madison, Wisconsin 53706. Telephone (608) 890-0288. The subject or subjects to be discussed must be identified.
  - (4) The Wisconsin State Laboratory of Hygiene "Guidelines for Citizen Participation in WSLH Board Meetings" are published on its website: <http://www.slh.wisc.edu/index.shtml> and printed copies are available on request. (See Appendix 5) [Section §6.12 approved 5/27/03 board meeting.]

## Appendix 5

### Guidelines for Citizen Participation at WSLH Board Meetings

The Wisconsin State Laboratory of Hygiene board provides opportunities for citizens to appear before the board to provide information to the board on items listed on the agenda. Such appearances shall be brief and concise. In order to accommodate this participation in the allotted time, the guidelines are as follows:

- A. Items to be brought before the board:
  - 1. The board Secretary and Chair will assign a specific time on the agenda to hear public comment when a request to speak has been received from a member of the public.
  - 2. Individuals or organizations will be limited to a total of five (5) minutes to make a presentation to the board. Following the presentation board members may ask clarifying questions.
  - 3. An organization is limited to one (1) spokesperson on an issue.
  - 4. On complex issues, individuals wishing to appear before the board are encouraged to submit written materials to the board Secretary in advance of the meeting so the board may be better informed on the subject in question. Such information should be submitted to the board Secretary for distribution to all board members no later than seven (7) working days before the board meeting.
  - 5. No matters that are in current litigation may be brought before the board.
- B. The board encourages individuals to confine their remarks to broad general policy issues rather than the day-to-day operations of the Wisconsin State Laboratory of Hygiene.
- C. Citizens who have questions for board members should ask these questions prior to the board meeting, during any recess during the board proceedings, or after board adjournment.
- D. Written requests to appear before the WSLH Board of Directors should be submitted no later than two (2) working days prior to a scheduled board meeting.
- E. Submit written requests to:  
Secretary, Wisconsin State Laboratory of Hygiene Board of Directors  
C/O WSLH Director  
465 Henry Mall  
Madison, WI 53706  
Telephone: (608) 890-0288  
Email: [charles.brokopp@slh.wisc.edu](mailto:charles.brokopp@slh.wisc.edu)

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**BUSINESS ITEMS**

**Item 4. BOARD MEMBERS' MATTERS**

**Description of the Item:**

Board Members' Matters will present board members with the opportunity to ask questions and/or discuss issues related to the Wisconsin State Laboratory of Hygiene.

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

Receive for information.

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**BUSINESS ITEMS**

**Item 5. UW-MADISON UPDATE**

**Description of the Item:**

Darrell Bazzell will discuss UW-Madison issues relating to the WSLH

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

Receive for information.

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**BUSINESS ITEMS**

**Item 6. SCIENTIFIC PRESENTATIONS**

**Description of the Items:**

**NEW BUILDING UPDATE**

- 1) Dave Guberud, Commissioning Agent, Ring & DuChateau, LLP
- 2) Russ Van Gilder, Wisconsin Department of Administration

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

Receive for information.



Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**BUSINESS ITEMS**

**Item 7. IT UPDATE**

**Description of the Item:**

Linda Johnson, Interim Director, WSLH Office of Information Services, Steve Marshall, WSLH Assistant Director, and Mary Wedig, WSLH, will provide an update on major IT projects including electronic laboratory reporting (ELR) with specific hospital updates and a summary of volumes.

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

Receive for information.

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**BUSINESS ITEMS**

**Item 8. NEW COMMUNICABLE DISEASE TESTS AND FEES**

**Description of the Item:**

The attached updated list of CDD tests will be discussed with the Board.

**Suggested Board Action:**

Review and consider approval of proposed fees effective April 1, 2016.

**Staff Recommendations and Comments:**

Receive for information and approve attached CDD fees.

## 2016 COMMUNICABLE DISEASE DIVISION FEES

### NEW TESTS (11)

| TEST CODE | TEST NAME                                | CPT   | FEE      |
|-----------|------------------------------------------|-------|----------|
| MP00461   | S. PNEUMONIAE PCR (CDC VPD)              | 87798 | \$250.00 |
| MP00462   | S. PNEUMONIAE SEROTYPING C-PCR (CDC VPD) | 87798 | \$450.00 |
| MP00463   | S. PNEUMONIAE SEROTYPING RT-PCR          | 87798 | \$450.00 |
| MP00561   | NEISSERIA MENINGITIDIS PCR (CDC VPD)     | 87798 | \$250.00 |
| MP00563   | N. MENINGITIDIS GROUPING PCR (CDC VPD)   | 87798 | \$300.00 |
| MP00624   | S. PNEUMONIAE SENSITITRE                 | 87186 | \$75.00  |
| MP00651   | H. INFLUENZAE PCR (CDC VPD)              | 87798 | \$250.00 |
| MP00653   | H. INFLUENZAE SEROTYPING PCR (CDC VPD)   | 87798 | \$300.00 |
| SS02251   | POWASSAN IGM ANTIBODY                    | 86790 | \$125.00 |
| SS02261   | JAMESTOWN CANYON IGM ANTIBODY            | 86790 | \$125.00 |
| SS02303   | CHIKUNGUNYA PCR                          | 87798 | \$280.00 |

### EXISTING TESTS (21)

| TEST CODE | TEST NAME                          | CPT   | FEE      | CURRENT FEE |
|-----------|------------------------------------|-------|----------|-------------|
| MM00250   | MYCOBACTERIOLOGY SMEAR/CULTURE     | 87116 | \$60.00  | \$46.00     |
| MM00255   | MYCOBACTERIA STAIN                 | 87206 | \$13.00  | \$10.00     |
| MP00311   | B. PERTUSSIS/PARAPERTUSSIS PCR     | 87798 | \$120.00 | \$81.00     |
| MP00380   | CORYNEBACTERIA DIPHTHERIA CULTURE  | 87081 | \$75.00  | \$25.00     |
| MP00420   | LEGIONELLA CULTURE                 | 87081 | \$75.00  | \$25.00     |
| MP00460   | REFERRED ISOLATE ENTERIC           | 87077 | \$90.00  | \$50.00     |
| MP00470   | REFERRED ISOLATE-PUBLIC HEALTH     | 87077 | \$150.00 | \$25.00     |
| MP00500   | SHIGELLA CULTURE                   | 87045 | \$50.00  | \$35.00     |
| MP00520   | YERSINIA CULTURE                   | 87046 | \$50.00  | \$35.00     |
| MP00610   | H. DUCREYI CULTURE                 | 87081 | \$75.00  | \$25.00     |
| MP00623   | BORDETELLA CULTURE                 | 87081 | \$75.00  | \$25.00     |
| MP00655   | ENTERIC KIRBY BAUER SUSCEPTIBILITY | 87184 | \$60.00  | \$30.00     |
| MP00660   | STOOL CULTURE ROUTINE              | 87045 | \$75.00  | \$50.00     |
| MP00850   | SCHISTOSOME EXAM URINE             | 87177 | \$50.00  | \$35.00     |
| MP00881   | TISSUE PARASITE SMEAR              | 87207 | \$55.00  | \$25.00     |
| SS00025   | HEPATITIS A IGG IMMUNE STATUS      | 86849 | \$40.00  | \$10.00     |
| SS02025   | RUBELLA IGM & IGG ANTIBODY         | 86762 | \$220.44 | \$70.00     |
| SS02130   | MUMPS IGM AND IGG ANTIBODY         | 86735 | \$100.00 | \$30.00     |
| VR01713   | MEASLES VIRUS PCR                  | 87798 | \$275.00 | \$175.00    |
| VR01714   | MUMPS VIRUS PCR                    | 87798 | \$275.00 | \$200.00    |
| VR01725   | RUBELLA VIRUS PCR                  | 87798 | \$275.00 | \$200.00    |

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**BUSINESS ITEMS**

**Item 9. FY16 SECOND QUARTER REPORT**

**Description of the Item:**

Marie Ruetten, Financial Manager, WSLH, will provide the financial report to the Board.

**Suggested Board Action:**

Review attached budget information and provide input.

**Staff Recommendations and Comments:**

Receive for information.

WISCONSIN STATE LABORATORY OF HYGIENE

FINANCIAL REPORT

SECOND QUARTER FISCAL YEAR 2016

December 31, 2015

Contents

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FINANCIAL STATEMENTS

Statement of income

Comparative income statement

Comparative balance sheet

Statement of cash flows

Notes to the financial statements

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**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016**

**WISCONSIN STATE LABORATORY OF HYGIENE  
STATEMENT OF INCOME  
For the period July 1, 2015 through December 31, 2015**

|                                                | FY 16<br>APPROVED<br>ANNUAL<br>BUDGET | FY16<br>YEAR-TO-<br>DATE<br>BUDGET | FY16<br>YEAR-TO-<br>DATE<br>ACTUAL | VARIANCE<br>Over/(Under) | VARIANCE<br>% of<br>BUDGET |
|------------------------------------------------|---------------------------------------|------------------------------------|------------------------------------|--------------------------|----------------------------|
| <b>SUPPORT AND REVENUE</b>                     |                                       |                                    |                                    |                          |                            |
| Laboratory Services Revenues (Note 3)          |                                       |                                    |                                    |                          |                            |
| Agency                                         | \$ 6,353,127                          | \$ 3,178,955                       | \$ 3,176,415                       | \$ (2,540)               | -0.1%                      |
| Nonagency                                      | 18,889,145                            | 9,130,597                          | 8,849,581                          | (281,016)                | -3.1%                      |
| GPR Funding                                    | 11,300,000                            | 5,530,521                          | 5,513,869                          | (16,652)                 | -0.3%                      |
| OWI Fund Revenues                              | 1,605,900                             | 797,374                            | 810,170                            | 12,796                   | 1.6%                       |
| Grant Funding                                  | 5,489,180                             | 2,661,166                          | 2,445,060                          | (216,106)                | -8.1%                      |
| Interest Income                                | 8,400                                 | 4,200                              | 8,513                              | 4,313                    | 102.7%                     |
| <b>TOTAL SUPPORT AND REVENUE</b>               | <b>43,645,752</b>                     | <b>21,302,813</b>                  | <b>20,803,608</b>                  | <b>(499,205)</b>         | <b>-2.3%</b>               |
| <b>EXPENSES</b>                                |                                       |                                    |                                    |                          |                            |
| Salaries                                       | 18,271,076                            | 8,640,486                          | 8,564,137                          | (76,349)                 | -0.9%                      |
| Fringe Benefits                                | 7,407,261                             | 3,867,348                          | 3,714,142                          | (153,206)                | -4.0%                      |
| Supplies & Services                            | 13,430,389                            | 6,403,535                          | 6,240,142                          | (163,393)                | -2.6%                      |
| Transfer Overhead to UW                        | 839,805                               | 401,695                            | 364,404                            | (37,291)                 | -9.3%                      |
| Building Rent                                  | 2,557,470                             | 1,167,120                          | 1,184,357                          | 17,237                   | 1.5%                       |
| Depreciation                                   | 1,830,027                             | 884,278                            | 938,767                            | 54,489                   | 6.2%                       |
| Bad Debt Expense                               | 24,000                                | 12,000                             | 9,613                              | (2,387)                  | -19.9%                     |
| Interest Expense                               | 1,200                                 | 600                                | 1,514                              | 914                      | 152.3%                     |
| Loss From Disposal Of Assets                   | -                                     | -                                  | (2,602)                            | (2,602)                  |                            |
| <b>TOTAL EXPENSES</b>                          | <b>44,361,228</b>                     | <b>21,377,062</b>                  | <b>21,014,474</b>                  | <b>(362,588)</b>         | <b>-1.7%</b>               |
| <b>NET OPERATING INCOME OR (LOSS)</b>          | <b>\$ (715,476)</b>                   | <b>\$ (74,249)</b>                 | <b>\$ (210,866)</b>                | <b>\$ (136,617)</b>      |                            |
| Difference between Depreciation and Capital    | 715,476                               | 757,088                            | 582,793                            | (174,295)                |                            |
| <b>MODIFIED NET OPERATING INCOME OR (LOSS)</b> | <b>\$ -</b>                           | <b>\$ 682,839</b>                  | <b>\$ 371,927</b>                  | <b>\$ (310,912)</b>      |                            |

**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016**

**WISCONSIN STATE LABORATORY OF HYGIENE  
COMPARATIVE INCOME STATEMENT  
For the 6 months ended December 31, 2015 and December 31, 2014**

|                                                | 6 Months<br>Actual FY16 | 6 Months<br>Actual FY15 | Variance<br>Over/(Under) | Percentage<br>Change |
|------------------------------------------------|-------------------------|-------------------------|--------------------------|----------------------|
| <b>SUPPORT AND REVENUE</b>                     |                         |                         |                          |                      |
| Laboratory Services Revenues (Note 3)          |                         |                         |                          |                      |
| Agency                                         | \$ 3,176,415            | \$ 2,770,123            | \$ 406,292               | 14.7%                |
| Nonagency                                      | 8,849,581               | 8,943,451               | (93,870)                 | -1.0%                |
| GPR Funding                                    | 5,513,869               | 5,340,082               | 173,787                  | 3.3%                 |
| OWI Fund Revenues                              | 810,170                 | 850,074                 | (39,904)                 | -4.7%                |
| Grant Funding                                  | 2,445,060               | 2,647,257               | (202,197)                | -7.6%                |
| Interest Income                                | 8,513                   | 5,190                   | 3,323                    | 64.0%                |
| <b>TOTAL SUPPORT AND REVENUE</b>               | <b>20,803,608</b>       | <b>20,556,177</b>       | <b>247,431</b>           | <b>1.2%</b>          |
| <b>EXPENSES</b>                                |                         |                         |                          |                      |
| Salaries                                       | 8,564,137               | 8,835,029               | (270,892)                | -3.1%                |
| Fringe Benefits                                | 3,714,142               | 3,718,823               | (4,681)                  | -0.1%                |
| Supplies & Services                            | 6,240,142               | 6,627,831               | (387,689)                | -5.8%                |
| Transfer Overhead to UW                        | 364,404                 | 403,238                 | (38,834)                 | -9.6%                |
| Building Rent                                  | 1,184,357               | 1,111,075               | 73,282                   | 6.6%                 |
| Depreciation                                   | 938,767                 | 990,729                 | (51,962)                 | -5.2%                |
| Bad Debt Expense                               | 9,613                   | 38,041                  | (28,428)                 | -74.7%               |
| Interest Expense                               | 1,514                   | 1,444                   | 70                       | 4.8%                 |
| Loss From Disposal Of Assets                   | (2,602)                 | -                       | (2,602)                  |                      |
| <b>TOTAL EXPENSES</b>                          | <b>21,014,474</b>       | <b>21,726,210</b>       | <b>(711,736)</b>         | <b>-3.3%</b>         |
| <b>NET OPERATING INCOME OR (LOSS)</b>          | <b>\$ (210,866)</b>     | <b>\$ (1,170,033)</b>   | <b>\$ 959,167</b>        |                      |
| Difference between Depreciation and Capital    | 582,793                 | 230,421                 | 352,372                  |                      |
| <b>MODIFIED NET OPERATING INCOME OR (LOSS)</b> | <b>\$ 371,927</b>       | <b>\$ (939,612)</b>     | <b>\$ 1,311,539</b>      |                      |

**WISCONSIN STATE LABORATORY OF HYGIENE  
COMPARATIVE BALANCE SHEET  
As of December 31, 2015 and June 30, 2015**

**ASSETS**

|                                             | <u>December 31, 2015</u>    | <u>June 30, 2015</u>        |
|---------------------------------------------|-----------------------------|-----------------------------|
| <b>CURRENT ASSETS</b>                       |                             |                             |
| Cash                                        | \$ 10,393,449               | \$ 8,918,171                |
| Cash-restricted-newborn screening surcharge | 2,820,955                   | 1,880,797                   |
| Net accounts receivables (Note 2)           | 4,682,986                   | 3,764,249                   |
| Other receivables                           | 467,675                     | 830,324                     |
| Inventories                                 | 77,506                      | 66,402                      |
| Prepaid expenses                            | 329,704                     | 219,915                     |
| Total current assets                        | <u>18,772,275</u>           | <u>15,679,858</u>           |
| <b>EQUIPMENT AND BUILDING IMPROVEMENTS</b>  |                             |                             |
| Equipment                                   | 25,357,941                  | 25,203,234                  |
| Building improvements                       | 7,221,347                   | 7,221,347                   |
|                                             | <u>32,579,288</u>           | <u>32,424,581</u>           |
| Less accumulated depreciation               | <u>(23,132,893)</u>         | <u>(22,381,321)</u>         |
| Total net fixed assets                      | <u>9,446,395</u>            | <u>10,043,260</u>           |
| <b>Total Assets</b>                         | <u><u>\$ 28,218,670</u></u> | <u><u>\$ 25,723,118</u></u> |
| <b>LIABILITIES AND EQUITY</b>               |                             |                             |
| <b>CURRENT LIABILITIES</b>                  |                             |                             |
| Salaries payable                            | \$ 218,559                  | \$ 544,580                  |
| Accounts payable                            | 624,764                     | 298,411                     |
| Newborn screening surcharge payable         | 2,820,955                   | 1,880,797                   |
| Accrued expenses                            | 454,062                     | 437,498                     |
| Notes Payable - current                     | 77,716                      | 94,390                      |
| Proficiency testing deferred revenue        | 2,718,737                   | 1,023,877                   |
| Newborn screening deferred revenue          | 2,296,777                   | 2,225,598                   |
| Compensated Absences (Note 5)               | 668,222                     | 695,205                     |
| Total current liabilities                   | <u>9,879,792</u>            | <u>7,200,356</u>            |
| <b>LONG TERM DEBT</b>                       |                             |                             |
| Compensated Absences (Note 5)               | <u>1,649,847</u>            | <u>1,587,530</u>            |
| Total long term debt                        | <u>1,649,847</u>            | <u>1,587,530</u>            |
| <b>Total Liabilities</b>                    | <u><u>11,529,639</u></u>    | <u><u>8,787,886</u></u>     |
| <b>EQUITY</b>                               |                             |                             |
| Retained earnings-restricted (Note 4)       |                             |                             |
| Operating contingency                       | 1,899,682                   | 2,282,927                   |
| Total restricted retained earnings          | <u>1,899,682</u>            | <u>2,282,927</u>            |
| Net Operating Income or (Loss)              | (210,866)                   | (2,034,642)                 |
| Retained earnings-unrestricted              | 9,584,802                   | 11,271,534                  |
| Contributed capital                         | 5,415,413                   | 5,415,413                   |
| Total unrestricted retained earnings        | <u>14,789,349</u>           | <u>14,652,305</u>           |
| <b>Total Equity</b>                         | <u>16,689,031</u>           | <u>16,935,232</u>           |
| <b>Total Liabilities and Equity</b>         | <u><u>\$ 28,218,670</u></u> | <u><u>\$ 25,723,118</u></u> |



**WISCONSIN STATE LABORATORY OF HYGIENE**  
**STATEMENT OF CASH FLOWS**  
For the Period July 1, 2015 through December 31, 2015

**CASH FLOWS FROM OPERATING ACTIVITIES**

|                                                                                   |               |
|-----------------------------------------------------------------------------------|---------------|
| Net income                                                                        | \$ (210,866)  |
| Adjustments to reconcile net income to net cash provided by operating activities: |               |
| Depreciation                                                                      | 938,767       |
| Changes in working capital components:                                            |               |
| (Increase) in net accounts receivables                                            | (918,737)     |
| Decrease in other receivables                                                     | 362,649       |
| (Increase) in inventories                                                         | (11,104)      |
| (Increase) in prepaid expenses                                                    | (109,789)     |
| (Decrease) in salaries payable                                                    | (326,021)     |
| Increase in accounts payable                                                      | 326,353       |
| Increase in newborn screening surcharge payable                                   | 940,158       |
| Increase in accrued expenses                                                      | 16,564        |
| (Decrease) in notes payable - current                                             | (16,674)      |
| Increase in proficiency testing deferred revenue                                  | 1,694,860     |
| Increase in newborn screen deferred revenue                                       | <u>71,179</u> |
| Net cash provided (used) in operating activities                                  | 2,757,339     |

**CASH FLOWS FROM INVESTING ACTIVITIES**

|                                                       |                  |
|-------------------------------------------------------|------------------|
| Purchase of equipment and physical plant improvements | <u>(341,903)</u> |
| Net cash (used in) investing activities               | <u>(341,903)</u> |

**CASH FLOWS FROM FINANCING ACTIVITIES**

|                                                  |           |
|--------------------------------------------------|-----------|
| Principal payment on Capital Lease               | <u>-</u>  |
| Net cash provided (used in) financing activities | <u>-</u>  |
| Net increase (decrease) in cash                  | 2,415,436 |

**Cash:**

|           |                      |
|-----------|----------------------|
| Beginning | <u>10,798,968</u>    |
| Ending    | <u>\$ 13,214,404</u> |

**WISCONSIN STATE LABORATORY OF HYGIENE**  
**NOTES TO THE FINANCIAL STATEMENTS**  
For the period July 1, 2015 through December 31, 2015

**NOTE 1 –NATURE OF BUSINESS AND SIGNIFICANT ACCOUNTING POLICIES**

Nature of Business:

- The Wisconsin State Laboratory of Hygiene (WSLH) is a governmental institution which provides medical, industrial and environmental laboratory testing and related services to individuals, private and public agencies, including the Department of Natural Resources (DNR) and the Department of Health Services (DHS). Approximately 75% of the WSLH operating revenues are program revenues, including contracts, grants, and fee-for-service billing. The remainder are general purpose revenues (GPR), which are Wisconsin state general fund dollars.

Budgetary Data:

- Fiscal Year 2015-2016 operating budget amounts were approved by the WSLH Board on June 23, 2015.

Basis of Presentation:

- The financial statements have been prepared on a modified accrual basis following Generally Accepted Accounting Principles (GAAP).

Basis of Accounting:

- Revenues are recognized at the completion of the revenue generating processes. Fee-for-service revenues are generally recognized in the period services are completed.
- Revenues from GPR, OWI, Grants, and expense reimbursement contracts for salaries, fringe benefits, capital, and supplies are recognized as expended.
- Expenses are recognized and accrued when the liability is incurred.

Estimates and assumptions:

- The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying footnotes. Actual results could differ from those estimates.

Assets:

- Cash is considered restricted if, by prior agreement with an outside entity, it must be segregated for future use by the outside entity or by WSLH at the outside entity's behest. As of December 31, 2015 available cash is restricted in an amount equal to the newborn screening surcharge payable to the Wisconsin Department of Health Services.
- Accounts receivable are reported at net realizable value. Net realizable value is equal to the gross amount of receivables less an estimated allowance for uncollectible amounts.
- Inventory is stated at cost (first in, first-out method).
- Equipment and building improvements are carried at cost. Expenditures for assets in excess of \$5,000 are capitalized. Depreciation is computed by the straight-line method.

Liabilities

- A liability for unearned revenue is recognized for prepaid receipts for WSLH-provided Proficiency Testing programs and for prepaid newborn screening tests.

**NOTE 2- ACCOUNTS RECEIVABLE**

- Accounts receivable and allowance for uncollectible account balances as of December 31, 2015 and June 30, 2015 are as follows:

|                           | <u>December 31, 2015</u> | <u>June 30, 2015</u> |
|---------------------------|--------------------------|----------------------|
| Accounts Receivable Total | \$5,093,130              | \$4,255,019          |
| Allowance for bad debt    | <u>(410,144)</u>         | <u>(490,770)</u>     |
| Net Receivables           | \$4,682,986              | \$3,764,249          |

**NOTE 3- LABORATORY SERVICES REVENUES**

- At the Board’s request, Laboratory Service Revenues on the Income Statement have been divided into two groups, Agency and Non-Agency, as follows:

Agency:

- Department of Natural Resources
- Department of Health Services
- Department of Agriculture, Trade and Consumer Protection
- University of Wisconsin
- Office of Justice Assistance
- Wisconsin Emergency Management

Non-Agency:

- UW Hospital Authority
- Medicare and Medicaid
- Municipalities
- Law Enforcement Agencies
- Proficiency Testing
- Newborn Screening
- All other revenues from individuals, businesses, clinics, and hospitals.

**NOTE 4- RETAINED EARNINGS - RESTRICTED**

- The operating contingency is computed annually and reflects two months of salary and fringe benefit cost for positions funded from program revenues. The contingency fund is considered adequately funded if working capital is greater than the contingency fund restriction. As of December 31, 2015 working capital (current assets less current liabilities) was \$8,892,483 thereby meeting the target contingency reserve requirement of \$1,899,682.

**NOTE 5- COMPENSATED ABSENCES**

- GASB Statement No. 16, “Accounting for Compensated Absences,” establishes standards of accounting and reporting for compensated absences by state and local governmental entities for which employees will be paid such as vacation, sick leave, and sabbatical leave. Using the criteria in Statement 16, a liability for compensated absences that is attributable to services already rendered and that is not contingent on a specific event that is outside the control of the State and its employees has been accrued. The table below details the liability by benefit category:

|           | Total              | Vacation         | Pers Hol         | Legal Hol      | Comp Time      | Sabbatical         |
|-----------|--------------------|------------------|------------------|----------------|----------------|--------------------|
| Current   | \$668,222          | \$449,903        | \$114,430        | \$1,184        | \$3,769        | \$98,936           |
| Long Term | 1,649,847          | -                | -                | -              | -              | 1,649,847          |
|           | <u>\$2,318,069</u> | <u>\$449,903</u> | <u>\$114,430</u> | <u>\$1,184</u> | <u>\$3,769</u> | <u>\$1,748,783</u> |

**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016**

**BUSINESS ITEMS**

**Item 10. CONTRACTS REPORT**

**Description of the Item:**

The table on the following page contains the major grants and contracts that have been received since the last Board meeting. WSLH staff will be available to provide more details on these grants and contracts.

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

There are no contracts requiring board approval.

# WSLH CONTRACTS WINTER 2016

| <b>CUSTOMER</b>                           | <b>CONTRACT NAME</b> | <b>START DATE</b> | <b>END DATE</b> | <b>ACCOUNT NAME</b>                  | <b>SCOPE OF WORK</b>                                                                                                                                                                                                                   | <b>AWARD AMOUNT</b> | <b>WSLH DEPT</b> |
|-------------------------------------------|----------------------|-------------------|-----------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|
| Association of Public Health Laboratories | 56400 200 921 16 01  | 1-Oct-15          | 30-Jun-16       | APHL National Influenza Surveillance | Virus isolation, neuraminidase testing and sequencing for the National Influenza Surveillance Project                                                                                                                                  | \$ 380,000          | CDD              |
| Association of Public Health Laboratories | 56400 200 902 16 01  | 1-Jul-15          | 30-Jun-16       | APHL Vaccine Preventable Disease     | Testing services for submitting laboratories assigned by APHL for measles, mumps, rubella, varicellazoster virus, Bordetella pertussis, Streptococcus pneumoniae, Neisseria meningitides and Haemophilus influenza with results to CDC | \$ 415,200          | CDD              |
| Association of Public Health Laboratories | 56400 200 801 16 02  | 1-Jul-15          | 30-Jun-16       | APHL Calicinet                       | Serve as CaliciNet Outbreak Support Center including delivery of norovirus sequences to CDC                                                                                                                                            | \$ 20,000           | CDD              |

|                                           |                     |           |           |                                        |                                                                                                                                                 |            |     |
|-------------------------------------------|---------------------|-----------|-----------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Association of Public Health Laboratories | 56300-600-160-16-03 | 1-Sep-15  | 31-Aug-16 | APHL SCID                              | Support SCID implementation on grantees by providing training and expertise, including hosting at WSLH to train on SCID screening methodologies | \$ 10,000  | DPD |
| Association of Public Health Laboratories | 56400-200-803-15-05 | 26-Sep-15 | 31-Dec-15 | APHL NBS Webinar                       | Development of an online training course to address specimen collection practices for infants in special care birth units                       | \$ 20,000  | DPD |
| Illinois Department of Public Health      |                     | 1-Jan-16  | 31-Dec-18 | Illinois Dept Public Health            | Provide proficiency testing three times per year for three Illinois public health laboratories                                                  | \$ 15,000  | LID |
| Wisconsin Department of Health Services   | FAE 50489           | 1-Apr-15  | 31-Mar-15 | NBS Outreach Coordinator               | NBS Outreach Coordinator                                                                                                                        | \$ 30,202  | DPD |
| Wisconsin Department of Health Services   | TBD                 | 1-Jul-15  | 30-Jun-16 | NBS Statewide Genetics Consultant      | NBS Statewide Genetics Consultant                                                                                                               | \$ 86,304  | DPD |
| Wisconsin Department of Health Services   | TBD                 | 1-Jul-15  | 30-Jun-16 | NBS Congenital Coordinator             | NBS Congenital Coordinator                                                                                                                      | \$ 75,149  | DPD |
| Wisconsin Department of Health Services   | CARS 152002         | 1-Jan-16  | 31-Dec-16 | WDHS CARS Reproductive Health 1        | Reproductive Health Cervical Cancer Laboratory                                                                                                  | \$ 261,500 | DPD |
| Wisconsin Department of Health Services   | CARS 152009         | 1-Jan-16  | 31-Dec-16 | WDHS CARS MCH Womens Repo Health QA/QI | Womens Health and Family Planning Program, Quality Improvement Development                                                                      | \$ 127,482 | DPD |

|                                                            |                        |                 |                  |                                                         |                                                                                                                                                    |                   |            |
|------------------------------------------------------------|------------------------|-----------------|------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| <b>Wisconsin<br/>Department of<br/>Health<br/>Services</b> | <b>CARS<br/>152015</b> | <b>1-Jan-16</b> | <b>31-Dec-16</b> | <b>WDHS<br/>CARS RH<br/>Train Tech<br/>Assist</b>       | <b>Womens<br/>Health and<br/>Family<br/>Planning<br/>Program,<br/>Training and<br/>Technical<br/>Assistance</b>                                    | <b>\$ 232,829</b> | <b>DPD</b> |
| <b>Wisconsin<br/>Department of<br/>Health<br/>Services</b> | <b>CARS<br/>152016</b> | <b>1-Jan-16</b> | <b>31-Dec-16</b> | <b>WDHS<br/>CARS RH<br/>EC FPW</b>                      | <b>Womens<br/>Health and<br/>Family<br/>Planning<br/>Program,<br/>Cervical<br/>Cancer<br/>Screening<br/>and<br/>Infrastructure<br/>Improvement</b> | <b>\$ 75,000</b>  | <b>DPD</b> |
| <b>Wisconsin<br/>Department of<br/>Health<br/>Services</b> | <b>CARS<br/>159321</b> | <b>1-Jan-16</b> | <b>31-Dec-16</b> | <b>WDHS<br/>CARS<br/>Reproduct<br/>ive Health<br/>2</b> | <b>Womens<br/>Health and<br/>Family<br/>Planning<br/>Program,<br/>Community<br/>Based<br/>Services</b>                                             | <b>\$ 206,952</b> | <b>DPD</b> |

|                                                  |                  |          |           |                                                                |                                                                                                                                                                                                                                                                                                   |                                                  |     |
|--------------------------------------------------|------------------|----------|-----------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----|
| Wisconsin<br>Department of<br>Health<br>Services | PO<br>0000002158 | 1-Aug-15 | 31-Jul-16 | ELC -<br>Electronic<br>Laborator<br>y<br>Reporting             | Onboarding<br>new ELR<br>laboratories<br>and<br>maintaining<br>service for<br>current ELR<br>laboratories<br>and servers<br>as well as<br>establishmen<br>t of the AIMS<br>hub<br>connection                                                                                                      | \$ 71,342                                        | CDD |
| University of<br>Colorado                        |                  | 2/1/2016 | 8/31/2018 | NewSTEP<br>s 360,<br>Colorado<br>School of<br>Public<br>Health | Improve<br>timeliness<br>and accuracy<br>of birth<br>notifications,<br>specimen<br>and test<br>order<br>submission,<br>and result<br>reporting by<br>implementing<br>orders/result<br>s customer<br>interfaces,<br>web portal<br>access, and<br>expanding<br>provider<br>notification<br>systems. | \$40,000 year<br>1, \$80K over<br>next two years | DPD |



|                                                    |                    |          |           |                                |                                                                                                                                                 |                                     |     |
|----------------------------------------------------|--------------------|----------|-----------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|
| Wisconsin<br>Department of<br>Natural<br>Resources | PO000000<br>125    | 9/1/2015 | 6/30/2015 | WDNR<br>WM012                  | Fox River<br>Waterfowl                                                                                                                          | \$ 8,200                            | EHD |
| Wisconsin<br>Department of<br>Natural<br>Resources | NMF000008<br>1     | 9/1/2015 | 6/30/2016 | WDNR<br>GL040                  | Phosphorus<br>Monitoring<br>Lake<br>Michigan;<br>additional<br>funding<br>added                                                                 | \$ 8,024                            | EHD |
| Wisconsin<br>Department of<br>Natural<br>Resources | NMF000003<br>20    | 9/1/2015 | 6/30/2015 | WDNR<br>NO023                  | Non-Point<br>Evaluation<br>Monitoring<br>(USGS)                                                                                                 | \$ 77,649                           | EHD |
| CH2M Hill                                          | 10381-7-<br>105396 | 5/7/2015 | 3/31/2016 | CH2M Hill<br>Lake<br>Catherine | Modification<br>of contract to<br>add funding<br>and time for<br>testing of<br>environmenta<br>l samples<br>from Lake<br>Catherine,<br>Arkansas | \$80,575<br>(\$22,575 new<br>funds) | EHD |

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**BUSINESS ITEMS**

**Item 11. DIRECTOR'S REPORT**

- A. FY16 Meeting Calendar**
- B. Public or Environmental Health Incidents of Educational Interest**
- C. Water Systems Report**
- D. Articles of Interest**

**WISCONSIN STATE LABORATORY OF HYGIENE  
BOARD OF DIRECTORS  
FY16 MEETING CALENDAR**

|                                                                                                                                                          |                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>April 26, 2016</b><br/><b>1:00 – 4:00 p.m.</b><br/><b>Wisconsin State Laboratory of Hygiene</b><br/><b>2601 Agriculture Drive, Madison, WI</b></p> | <p><b>June 21, 2016</b><br/><b>1:00 – 4:00 p.m.</b><br/><b>Wisconsin State Laboratory of Hygiene</b><br/><b>2601 Agriculture Drive, Madison, WI</b></p>    |
| <ul style="list-style-type: none"> <li>■ Present FY16 3<sup>rd</sup> quarter report</li> <li>Submit FY17 preliminary budget</li> </ul>                   | <ul style="list-style-type: none"> <li>■ Approve FY17 budget</li> </ul>                                                                                    |
| <p><b>August 23, 2016</b><br/><b>1:00 – 4:00 p.m.</b><br/><b>TBA</b></p>                                                                                 | <p><b>November 8, 2016</b><br/><b>1:00 – 4:00 p.m.</b><br/><b>Wisconsin State Laboratory of Hygiene</b><br/><b>2601 Agriculture Drive, Madison, WI</b></p> |
| <ul style="list-style-type: none"> <li>■ Present FY16 year-end closeout report</li> </ul>                                                                | <ul style="list-style-type: none"> <li>■ Present FY17 first quarter report</li> </ul>                                                                      |

## Report to the Wisconsin State Laboratory of Hygiene Board

### Representative Public or Environmental Health Incidents of Educational Interest For the Period Oct. 23, 2015 – Feb. 4, 2016

| Approx. Date                   | Agent or Event Name                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                              | Current Status |
|--------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>OUTBREAKS and INCIDENTS</b> |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |
| November 2015                  | Brucella                              | WSLH Communicable Disease Division (CDD) performed testing on specimens from a patient who had visited family in Saudi Arabia a few months prior and been symptomatic. Specimens were presumptive positive for Brucella species and sent to CDC for confirmatory testing.                                                                                                                                                                                | Complete       |
| December 2015                  | La Crosse hazmat discharge incident   | WSLH received water-based samples from the La Crosse hazmat team suspected to be associated with a spill situation. The WSLH ESS Organics program tested the samples as part of the investigation. A small number of compounds were detected, but the levels seen were unremarkable. A high level of citizen concern contributed to the response to the spill.                                                                                           | Complete       |
| December 2015                  | Possible ricin exposure               | WSLH had a request from the Milwaukee Medical Examiner pursuing the ability to test for ricin exposure as part of a re-opened death investigation. WSLH tested a post-mortem urine specimen, confirming the absence of ricin.                                                                                                                                                                                                                            | Complete       |
| January 2016                   | <i>Elizabethkingia meningoseptica</i> | <p>About 20 patients from different healthcare facilities in Wisconsin tested positive for <i>Elizabethkingia meningoseptica</i>. As part of a joint investigation with WDPH and CDC, the WSLH CDD is performing PFGE testing on patient specimens as well as testing on environmental samples.</p> <p>A source for the infection has not yet been identified. However, bacteria isolated from several patients have a matching DNA banding pattern.</p> | Ongoing        |
| January 2016                   | Zika virus                            | As part of Wisconsin's preparedness and response efforts, the WSLH CDD has ordered primers and probes from our standard supplier and requested from CDC the additional materials needed to bring Zika virus PCR testing online. As of 2/4/16, we                                                                                                                                                                                                         | Ongoing        |

|                                   |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |
|-----------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                                   |                                                              | have not received the materials. Once all materials are in-house we will bring the test online as soon as possible. We anticipate we will be running the PCR test in several weeks. In regard to serology testing, CDC is unable to share serologic reagents at this time. They are currently working through regulatory issues.                                                                                                                                                                                                                                                     |          |
| <b>RECENT EVENTS and FINDINGS</b> |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |
| November 2015                     | UW Administrative Improvement Supplemental Award             | The Forensic Toxicology Section received a grant from the UW to provide a one day symposium for Wisconsin's medical examiners. This grant is a supplement to the Administrative Improvement Award the section received in July 2015.                                                                                                                                                                                                                                                                                                                                                 | Complete |
| Nov. 3, 2015                      | Chem Emergency Response – CDC exercise                       | The Chemical Emergency Response team participated in a CDC-sponsored exercise for Level 1 labs. The WSLH team received 10 samples that were tested for the nerve agent panel, and all specimens had quantifiable results on multiple agents. WSLH Chemists Meshel Mork did the analysis and Matt Roach handled the review and data handling.                                                                                                                                                                                                                                         | Complete |
| November 4, 2015                  | Wisconsin Mycobacteriology Laboratory Network annual meeting | <p>The Wisconsin Mycobacteriology Laboratory Network (WMLN) held its annual meeting on November 4, 2015.</p> <p>The WMLN is an ongoing collaboration of all 31 laboratories in Wisconsin that perform some level of testing for TB, to share expertise and data critical to the state's TB control efforts, and to improve TB testing quality overall in Wisconsin.</p> <p>WMLN activities are coordinated by the Wisconsin State Laboratory of Hygiene and support statewide TB control efforts by the Wisconsin Department of Health Services' Wisconsin Tuberculosis Program.</p> | Complete |
| November 11, 2015                 | WI Clinical Laboratory Network Webinar                       | <p>In November the WSLH CDD presented a Wisconsin Clinical Laboratory Network (WCLN) educational webinar for 121 laboratorians entitled "<i>Syndromic Multiplex Panels – What's New, How Will We Use Them and What is the Impact on the Microbiology Laboratory?</i>"</p> <p>Guest speaker Dr. Nathaniel Ledeboer discussed</p>                                                                                                                                                                                                                                                      | Complete |

|                      |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|----------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                      |                                        | new advances in multiplex panels for the diagnosis of infectious diseases, including the use of new panels for identification of the causative agents of meningitis. He also provided information on when it is appropriate to use multiplex panels in patient care and what populations should be tested in comparison to molecular point of care testing.                                                                                                                                                                                                                                    |          |
| November 18-19, 2015 | BLS/OSH Chief QA Review                | WSLH Bureau of Labor Statistics/Occupational Safety and Health Statistics Unit staffers Rebecca Adams and Jameson Bair hosted BLS Chief, Gail Barnett, from Chicago to conduct a review of all work fatality cases for 2015 Census of Fatal Occupational Injuries for Wisconsin.                                                                                                                                                                                                                                                                                                               | Complete |
| Nov. 23, 2015        | SOII 2014 data release                 | <p>The WSLH Bureau of Labor Statistics/Occupational Safety and Health Statistics Unit released the 2014 Survey of Occupational Injuries and Illnesses (SOII) data for Wisconsin.</p> <p>The data showed Wisconsin's overall incidence rate of nonfatal occupational injuries and illnesses remained unchanged at 4.0 cases per 100 equivalent full-time workers in 2014.</p> <p>SOII is the largest work injury data collection conducted nationwide. The Wisconsin SOII program collects data from a representative sample of 6,000 establishments in both the private and public sector.</p> | Complete |
| December 3, 2015     | National Farm Medicine Center Visit    | NFMC Director and researchers from Marshfield, WI visited with staff from the WSLH Environmental Health and Occupational Health Divisions and Director's Office: Curtis Hedman, Steve Marshall, Rebecca Adams, Steve Strelbel, David Webb and Ernie Stracener. Their purpose was to explore data sources and potential collaborations between WSLH and NFMC. The group met for two hours, and then Curtis led the NFMC staff on a tour of the Ag Drive laboratories.                                                                                                                           | Complete |
| December 16, 2015    | WI Clinical Laboratory Network Webinar | With national attention focused on laboratory biosafety, it is important for laboratories to remember the importance of packaging and shipping biohazardous materials correctly. WSLH CDD Director Dr. Pete Shult and WCLN Coordinator Erin Bowles reminded 77 WI laboratory professionals of this fact in the WCLN webinar presentation " <i>What is Packaging and</i>                                                                                                                                                                                                                        | Complete |

|                     |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|---------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                     |                                                                               | <p><i>Shipping Certification and Why is it Important?</i>".</p> <p>The webinar discussion focused on reminding laboratorians that the regulations governing the packaging and shipping of hazardous materials are complex. Laboratory professionals who package infectious substances for transport to another facility need to understand exactly what is required of them to become certified and maintain their certification in packaging and shipping and why it is important.</p>                                                                                                                                                                                                                                                        |          |
| Dec. 21, 2015       | CDC award -- Influenza Whole Genome Sequencing                                | <p>A pilot project at the WSLH to perform Whole Genome Sequencing on influenza viruses received the Excellence in Domestic Partnering Award from the National Center for Immunization and Respiratory Diseases (NCIRD) at the Centers for Disease Control and Prevention (CDC).</p> <p>The WSLH is in the first year of a 3-year project funded by the CDC to pilot Next Generation Whole Genome Sequencing of influenza viruses submitted for surveillance from Wisconsin and other states.</p> <p>The WSLH is the first state public health laboratory in the country to collaborate with the CDC on this cutting-edge technology. The WSLH has been 1 of 3 CDC-designated National Influenza Surveillance Reference Centers since 2009.</p> | Complete |
| January 2016        | <i>Environmental Toxicology and Chemistry</i> article on harmful algal blooms | <p>WSLH Environmental Toxicologist Dawn Perkins co-authored an <i>ET&amp;C Focus</i> article "Are harmful algal blooms becoming the greatest inland water quality threat to public health and aquatic ecosystems?" published in the January 2016 issue of <i>Environmental Toxicology and Chemistry</i>.</p> <p>While the authors don't have an exact answer to their question yet, they do outline the challenges ahead and the information that is still needed.</p>                                                                                                                                                                                                                                                                         | Complete |
| January 12-14, 2016 | BLS/OSH National training: Albuquerque, NM                                    | <p>Annual training for BLS Occupational Safety and Health staff. Steve Strebel, Rebecca Adams and Jameson Bair attended a combined 21 sessions about survey data collection, computer systems updates, occupational injury research, data requests, and personality styles for interacting with survey respondents.</p>                                                                                                                                                                                                                                                                                                                                                                                                                        | Complete |

|                     |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
|---------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| January 12-14, 2016 | BLS/OSHA National training: Albuquerque, NM       | Jameson Bair conducted 3 sessions of the workshop <i>Coding Occupational Injuries and Illnesses</i> for all national, regional and state staff.                                                                                                                                                                                                                                                                                                                                                                             | Complete |
| Feb. 1-5, 2016      | Puerto Rico Newborn Screening Laboratory Visitors | Zulley Peñaloza Medina and Ledith Resto Melendez, both nurses with the Puerto Rico Newborn Screening Program, spent a week with WSLH Newborn Screening Laboratory staff. The Puerto Rico NBS lab received an APHL NewSteps award in 2015 and began SCID screening in August 2015. The initial reason for their visit to Wisconsin was to compare their SCID testing processes with ours. And since they were already here, they expanded that quality assurance mission to all aspects of our newborn screening laboratory. | Complete |



Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**Report to the  
Wisconsin State Laboratory of Hygiene Board  
Water Systems Tests by the WSLH  
For the period October 1, 2015 – January 31, 2016**

|                                                                                       |      |
|---------------------------------------------------------------------------------------|------|
| Number of systems on a boil water notice                                              | 64   |
| Number of water systems tested                                                        | 3591 |
| Percent of systems on a boil water notice                                             | 1.8% |
| Number of boil water notices for <u>municipal community water</u> systems.            | 0    |
| Number of boil water notices for <u>other than a municipal community water</u> system | 5    |
| Number of boil water notices for <u>non-transient, non-community</u> water systems.   | 6    |
| Number of boil water notices for <u>transient water systems</u> .                     | 53   |

|             | # of systems tested by SLH |    |    |     | # of Boil Water Notices |    |    |    |
|-------------|----------------------------|----|----|-----|-------------------------|----|----|----|
|             | MC                         | OC | NN | TN  | MC                      | OC | NN | TN |
| Adams       | 3                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Ashland     | 3                          | 0  | 1  | 2   | 0                       | 0  | 0  | 0  |
| Barron      | 2                          | 3  | 4  | 1   | 0                       | 0  | 0  | 0  |
| Bayfield    | 1                          | 0  | 2  | 0   | 0                       | 0  | 0  | 0  |
| Brown       | 9                          | 0  | 3  | 7   | 0                       | 0  | 0  | 1  |
| Buffalo     | 3                          | 0  | 0  | 4   | 0                       | 0  | 0  | 0  |
| Burnett     | 0                          | 1  | 2  | 5   | 0                       | 0  | 0  | 1  |
| Calumet     | 7                          | 0  | 2  | 4   | 0                       | 0  | 0  | 0  |
| Chippewa    | 1                          | 2  | 0  | 13  | 0                       | 0  | 0  | 1  |
| Clark       | 7                          | 1  | 3  | 7   | 0                       | 0  | 0  | 0  |
| Columbia    | 10                         | 2  | 3  | 6   | 0                       | 0  | 0  | 0  |
| Crawford    | 5                          | 0  | 0  | 4   | 0                       | 0  | 0  | 0  |
| Dane        | 32                         | 9  | 8  | 19  | 0                       | 0  | 1  | 2  |
| Dodge       | 16                         | 1  | 3  | 25  | 0                       | 0  | 0  | 0  |
| Door        | 3                          | 2  | 2  | 187 | 0                       | 0  | 0  | 5  |
| Douglas     | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Dunn        | 0                          | 1  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Eau Claire  | 0                          | 2  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Florence    | 1                          | 0  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Fond Du Lac | 8                          | 2  | 2  | 17  | 0                       | 0  | 0  | 0  |
| Forest      | 4                          | 0  | 0  | 3   | 0                       | 0  | 0  | 0  |
| Grant       | 12                         | 3  | 2  | 12  | 0                       | 0  | 0  | 0  |
| Green       | 7                          | 0  | 3  | 3   | 0                       | 0  | 0  | 0  |
| Green Lake  | 5                          | 1  | 2  | 3   | 0                       | 0  | 0  | 0  |
| Iowa        | 7                          | 0  | 4  | 19  | 0                       | 0  | 0  | 1  |
| Iron        | 5                          | 0  | 0  | 1   | 0                       | 0  | 0  | 0  |
| Jackson     | 3                          | 0  | 1  | 10  | 0                       | 0  | 0  | 0  |
| Jefferson   | 5                          | 3  | 2  | 8   | 0                       | 0  | 0  | 0  |
| Juneau      | 8                          | 2  | 0  | 4   | 0                       | 0  | 0  | 0  |
| Kenosha     | 0                          | 8  | 5  | 7   | 0                       | 0  | 0  | 0  |
| Kewaunee    | 3                          | 1  | 2  | 4   | 0                       | 0  | 0  | 0  |
| La Crosse   | 0                          | 2  | 0  | 1   | 0                       | 0  | 0  | 0  |
| Lafayette   | 6                          | 0  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Langlade    | 1                          | 1  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Lincoln     | 3                          | 0  | 0  | 4   | 0                       | 0  | 0  | 1  |
| Manitowoc   | 5                          | 2  | 3  | 23  | 0                       | 0  | 0  | 1  |
| Marathon    | 3                          | 1  | 5  | 0   | 0                       | 0  | 0  | 0  |
| Marinette   | 6                          | 0  | 1  | 23  | 0                       | 0  | 0  | 0  |
| Marquette   | 1                          | 2  | 2  | 6   | 0                       | 0  | 0  | 1  |
| Menominee   | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Milwaukee   | 2                          | 2  | 2  | 0   | 0                       | 0  | 0  | 0  |
| Monroe      | 5                          | 3  | 2  | 2   | 0                       | 0  | 0  | 0  |
| Oconto      | 5                          | 0  | 0  | 16  | 0                       | 0  | 0  | 1  |
| Oneida      | 1                          | 2  | 1  | 2   | 0                       | 0  | 0  | 0  |
| Outagamie   | 9                          | 0  | 1  | 7   | 0                       | 0  | 0  | 0  |
| Ozaukee     | 1                          | 0  | 11 | 6   | 0                       | 0  | 0  | 0  |
| Pepin       | 0                          | 1  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Pierce      | 2                          | 1  | 4  | 0   | 0                       | 0  | 0  | 0  |
| Polk        | 1                          | 0  | 0  | 49  | 0                       | 0  | 0  | 1  |
| Portage     | 4                          | 0  | 5  | 0   | 0                       | 0  | 0  | 0  |
| Price       | 3                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Racine      | 1                          | 5  | 6  | 1   | 0                       | 0  | 1  | 0  |
| Richland    | 6                          | 0  | 3  | 1   | 0                       | 0  | 0  | 0  |
| Rock        | 7                          | 6  | 7  | 12  | 0                       | 0  | 0  | 2  |
| Rusk        | 1                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Sauk        | 9                          | 2  | 4  | 12  | 0                       | 0  | 0  | 0  |
| Sawyer      | 1                          | 2  | 1  | 1   | 0                       | 0  | 0  | 0  |
| Shawano     | 9                          | 0  | 1  | 12  | 0                       | 0  | 0  | 1  |
| Sheboygan   | 7                          | 0  | 4  | 12  | 0                       | 0  | 0  | 1  |
| St. Croix   | 1                          | 3  | 1  | 2   | 0                       | 0  | 0  | 1  |
| Taylor      | 2                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  |
| Trempealeau | 5                          | 2  | 1  | 5   | 0                       | 0  | 0  | 0  |
| Unknown     | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Vernon      | 5                          | 0  | 0  | 10  | 0                       | 0  | 0  | 2  |
| Vilas       | 3                          | 2  | 1  | 2   | 0                       | 0  | 0  | 0  |
| Walworth    | 2                          | 0  | 2  | 9   | 0                       | 0  | 0  | 1  |
| Washburn    | 1                          | 1  | 1  | 2   | 0                       | 0  | 0  | 0  |
| Washington  | 0                          | 6  | 7  | 4   | 0                       | 0  | 1  | 0  |
| Waukesha    | 3                          | 4  | 9  | 35  | 0                       | 0  | 0  | 1  |
| Waupaca     | 6                          | 2  | 0  | 5   | 0                       | 0  | 0  | 0  |
| Waushara    | 4                          | 0  | 4  | 9   | 0                       | 0  | 0  | 0  |
| Winnebago   | 4                          | 0  | 3  | 0   | 0                       | 0  | 0  | 0  |
| Wood        | 4                          | 4  | 2  | 0   | 0                       | 0  | 0  | 0  |

## October 2015

### Report on Public Water System Testing

MC is municipal community water system which means a water system which serves at least 15 service connections used by year round residents or regularly serves at least 25 year round resident and is owned by a county, city, village, town, town sanitary district, or utility district.

OC is other than municipal community water system which means a community water system that is not a municipal water system. Examples of other than municipal community water systems include but are not limited to those serving mobile home parks, apartments and condominiums.

NN is non-transient non-community water system which means a non-community water system that regularly serves at least 25 of the same persons over 6 months per year. Examples of non-transient non-community water systems include those serving schools, day care centers and factories.

TN is non-community transient water system which means a non-community water system that serves at least 25 people at least 60 days of the year. Examples of transient non-community water systems include those serving taverns, motels, restaurants, churches, campgrounds and parks.

|             | # of systems tested by SLH |    |    |    | # of Boil Water Notices |    |    |    |
|-------------|----------------------------|----|----|----|-------------------------|----|----|----|
|             | MC                         | OC | NN | TN | MC                      | OC | NN | TN |
| Adams       | 3                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Ashland     | 3                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Barron      | 2                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Bayfield    | 1                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Brown       | 9                          | 0  | 2  | 3  | 0                       | 0  | 0  | 2  |
| Buffalo     | 3                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Burnett     | 0                          | 0  | 1  | 2  | 0                       | 0  | 0  | 0  |
| Calumet     | 7                          | 1  | 2  | 0  | 0                       | 0  | 0  | 0  |
| Chippewa    | 1                          | 1  | 0  | 7  | 0                       | 0  | 0  | 0  |
| Clark       | 7                          | 1  | 3  | 2  | 0                       | 0  | 0  | 0  |
| Columbia    | 10                         | 3  | 3  | 13 | 0                       | 0  | 0  | 1  |
| Crawford    | 5                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Dane        | 32                         | 6  | 7  | 24 | 0                       | 0  | 0  | 0  |
| Dodge       | 16                         | 0  | 7  | 58 | 0                       | 0  | 0  | 4  |
| Door        | 3                          | 1  | 1  | 43 | 0                       | 0  | 0  | 2  |
| Douglas     | 0                          | 0  | 0  | 10 | 0                       | 0  | 0  | 0  |
| Dunn        | 0                          | 1  | 0  | 2  | 0                       | 0  | 0  | 1  |
| Eau Claire  | 0                          | 4  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Florence    | 1                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Fond Du Lac | 8                          | 9  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Forest      | 3                          | 0  | 0  | 1  | 0                       | 0  | 0  | 1  |
| Grant       | 12                         | 2  | 1  | 4  | 0                       | 0  | 0  | 0  |
| Green       | 7                          | 0  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Green Lake  | 5                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Iowa        | 7                          | 0  | 1  | 5  | 0                       | 0  | 0  | 0  |
| Iron        | 5                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Jackson     | 2                          | 0  | 1  | 2  | 0                       | 0  | 0  | 0  |
| Jefferson   | 5                          | 3  | 7  | 6  | 0                       | 0  | 0  | 0  |
| Juneau      | 8                          | 0  | 1  | 5  | 0                       | 0  | 0  | 0  |
| Kenosha     | 0                          | 8  | 7  | 0  | 0                       | 0  | 0  | 0  |
| Kewaunee    | 3                          | 0  | 1  | 1  | 0                       | 0  | 0  | 0  |
| La Crosse   | 0                          | 1  | 2  | 1  | 0                       | 0  | 0  | 0  |
| Lafayette   | 6                          | 0  | 0  | 5  | 0                       | 0  | 0  | 1  |
| Langlade    | 1                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Lincoln     | 3                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Manitowoc   | 5                          | 3  | 3  | 5  | 0                       | 0  | 0  | 1  |
| Marathon    | 3                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Marinette   | 6                          | 0  | 2  | 10 | 0                       | 0  | 0  | 0  |
| Marquette   | 1                          | 1  | 4  | 3  | 0                       | 0  | 0  | 0  |
| Menominee   | 0                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Milwaukee   | 2                          | 1  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Monroe      | 5                          | 3  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Oconto      | 5                          | 2  | 3  | 3  | 0                       | 0  | 0  | 1  |
| Oneida      | 1                          | 4  | 2  | 1  | 0                       | 0  | 0  | 0  |
| Outagamie   | 9                          | 0  | 0  | 2  | 0                       | 0  | 0  | 0  |
| Ozaukee     | 1                          | 0  | 8  | 0  | 0                       | 0  | 0  | 0  |
| Pepin       | 0                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Pierce      | 2                          | 1  | 1  | 1  | 0                       | 1  | 0  | 0  |
| Polk        | 1                          | 0  | 0  | 16 | 0                       | 0  | 0  | 0  |
| Portage     | 3                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Price       | 3                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Racine      | 0                          | 0  | 8  | 1  | 0                       | 0  | 1  | 0  |
| Richland    | 5                          | 0  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Rock        | 7                          | 9  | 8  | 13 | 0                       | 0  | 1  | 0  |
| Rusk        | 1                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Sauk        | 9                          | 1  | 3  | 3  | 0                       | 0  | 0  | 0  |
| Sawyer      | 1                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Shawano     | 9                          | 0  | 1  | 2  | 0                       | 0  | 0  | 0  |
| Sheboygan   | 7                          | 1  | 3  | 2  | 0                       | 0  | 0  | 0  |
| St. Croix   | 1                          | 2  | 1  | 2  | 0                       | 0  | 0  | 0  |
| Taylor      | 1                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Trempealeau | 4                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Unknown     | 0                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Vernon      | 5                          | 1  | 0  | 6  | 0                       | 0  | 0  | 0  |
| Vilas       | 3                          | 3  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Walworth    | 2                          | 1  | 4  | 0  | 0                       | 0  | 0  | 0  |
| Washburn    | 1                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Washington  | 1                          | 6  | 6  | 0  | 0                       | 0  | 0  | 0  |
| Waukesha    | 4                          | 5  | 5  | 2  | 0                       | 0  | 0  | 0  |
| Waupaca     | 6                          | 1  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Waushara    | 4                          | 0  | 2  | 2  | 0                       | 0  | 0  | 0  |
| Winnebago   | 4                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Wood        | 4                          | 2  | 4  | 0  | 0                       | 0  | 0  | 0  |

## November 2015

### Report on Public Water System Testing

MC is municipal community water system which means a water system which serves at least 15 service connections used by year round residents or regularly serves at least 25 year round resident and is owned by a county, city, village, town, town sanitary district, or utility district.

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|             | # of systems tested by SLH |    |    |     | # of Boil Water Notices |    |    |    |   |
|-------------|----------------------------|----|----|-----|-------------------------|----|----|----|---|
|             | MC                         | OC | NN | TN  | MC                      | OC | NN | TN |   |
| Adams       | 4                          | 1  | 0  | 0   | 2                       | 0  | 0  | 0  | 1 |
| Ashland     | 3                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Barron      | 1                          | 0  | 4  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Bayfield    | 1                          | 1  | 0  | 1   | 0                       | 0  | 0  | 0  | 0 |
| Brown       | 8                          | 1  | 1  | 2   | 0                       | 0  | 0  | 0  | 0 |
| Buffalo     | 3                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Burnett     | 0                          | 0  | 0  | 1   | 0                       | 0  | 0  | 0  | 0 |
| Calumet     | 7                          | 1  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Chippewa    | 1                          | 2  | 2  | 5   | 0                       | 0  | 0  | 0  | 0 |
| Clark       | 7                          | 1  | 2  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Columbia    | 10                         | 2  | 6  | 2   | 0                       | 0  | 0  | 0  | 0 |
| Crawford    | 5                          | 1  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Dane        | 33                         | 14 | 15 | 7   | 0                       | 1  | 0  | 0  | 0 |
| Dodge       | 16                         | 4  | 13 | 41  | 0                       | 0  | 0  | 2  | 0 |
| Door        | 3                          | 3  | 3  | 106 | 0                       | 0  | 0  | 1  | 0 |
| Douglas     | 0                          | 0  | 1  | 1   | 0                       | 0  | 0  | 0  | 0 |
| Dunn        | 0                          | 1  | 0  | 2   | 0                       | 0  | 0  | 0  | 0 |
| Eau Claire  | 0                          | 0  | 4  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Florence    | 1                          | 0  | 1  | 1   | 0                       | 0  | 0  | 0  | 0 |
| Fond Du Lac | 8                          | 9  | 3  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Forest      | 2                          | 0  | 0  | 1   | 0                       | 0  | 0  | 0  | 0 |
| Grant       | 12                         | 6  | 2  | 2   | 0                       | 0  | 0  | 0  | 0 |
| Green       | 7                          | 1  | 3  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Green Lake  | 5                          | 0  | 3  | 1   | 0                       | 0  | 0  | 0  | 0 |
| Iowa        | 7                          | 1  | 3  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Iron        | 5                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Jackson     | 2                          | 0  | 2  | 3   | 0                       | 0  | 0  | 0  | 0 |
| Jefferson   | 5                          | 4  | 3  | 6   | 0                       | 0  | 0  | 0  | 0 |
| Juneau      | 8                          | 2  | 1  | 4   | 0                       | 0  | 0  | 0  | 0 |
| Kenosha     | 0                          | 8  | 4  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Kewaunee    | 3                          | 0  | 4  | 1   | 0                       | 0  | 0  | 0  | 0 |
| La Crosse   | 0                          | 1  | 6  | 1   | 0                       | 0  | 0  | 0  | 0 |
| Lafayette   | 6                          | 0  | 0  | 5   | 0                       | 0  | 0  | 1  | 0 |
| Langlade    | 1                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Lincoln     | 3                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Manitowoc   | 5                          | 2  | 7  | 2   | 0                       | 0  | 0  | 0  | 0 |
| Marathon    | 3                          | 1  | 3  | 1   | 0                       | 0  | 0  | 0  | 0 |
| Marinette   | 6                          | 0  | 0  | 4   | 0                       | 0  | 0  | 2  | 0 |
| Marquette   | 1                          | 0  | 1  | 3   | 0                       | 0  | 0  | 1  | 0 |
| Menominee   | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Milwaukee   | 2                          | 2  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Monroe      | 5                          | 3  | 2  | 2   | 0                       | 0  | 0  | 0  | 0 |
| Oconto      | 5                          | 2  | 2  | 5   | 0                       | 0  | 0  | 0  | 0 |
| Oneida      | 1                          | 3  | 0  | 5   | 0                       | 0  | 0  | 0  | 0 |
| Outagamie   | 9                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Ozaukee     | 1                          | 2  | 9  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Pepin       | 0                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Pierce      | 2                          | 1  | 2  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Polk        | 1                          | 0  | 0  | 2   | 0                       | 0  | 0  | 0  | 0 |
| Portage     | 3                          | 3  | 2  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Price       | 3                          | 1  | 1  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Racine      | 1                          | 0  | 10 | 0   | 0                       | 0  | 0  | 0  | 0 |
| Richland    | 5                          | 0  | 2  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Rock        | 7                          | 4  | 6  | 16  | 0                       | 0  | 0  | 0  | 0 |
| Rusk        | 1                          | 2  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Sauk        | 9                          | 2  | 2  | 1   | 0                       | 0  | 0  | 0  | 0 |
| Sawyer      | 1                          | 1  | 1  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Shawano     | 9                          | 1  | 0  | 3   | 0                       | 0  | 0  | 0  | 0 |
| Sheboygan   | 7                          | 1  | 1  | 1   | 0                       | 0  | 0  | 1  | 0 |
| St. Croix   | 1                          | 1  | 3  | 4   | 0                       | 0  | 0  | 0  | 0 |
| Taylor      | 1                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Trempealeau | 4                          | 1  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Unknown     | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Vernon      | 5                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Vilas       | 3                          | 6  | 2  | 4   | 0                       | 1  | 0  | 0  | 0 |
| Walworth    | 2                          | 2  | 6  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Washburn    | 1                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Washington  | 1                          | 6  | 2  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Waukesha    | 3                          | 5  | 15 | 0   | 0                       | 0  | 0  | 0  | 0 |
| Waupaca     | 6                          | 1  | 1  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Waushara    | 4                          | 2  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Winnebago   | 4                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  | 0 |
| Wood        | 4                          | 2  | 1  | 0   | 0                       | 0  | 0  | 0  | 0 |

## December 2015

### Report on Public Water System Testing

MC is municipal community water system which means a water system which serves at least 15 service connections used by year round residents or regularly serves at least 25 year round resident and is owned by a county, city, village, town, town sanitary district, or utility district.

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TN is non-community transient water system which means a non-community water system that serves at least 25 people at least 60 days of the year. Examples of transient non-community water systems include those serving taverns, motels, restaurants, churches, campgrounds and parks.

|             | # of systems tested by SLH |    |    |    | # of Boil Water Notices |    |    |    |
|-------------|----------------------------|----|----|----|-------------------------|----|----|----|
|             | MC                         | OC | NN | TN | MC                      | OC | NN | TN |
| Adams       | 3                          | 2  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Ashland     | 3                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Barron      | 1                          | 3  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Bayfield    | 1                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Brown       | 9                          | 1  | 4  | 1  | 0                       | 0  | 0  | 0  |
| Buffalo     | 3                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Burnett     | 0                          | 1  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Calumet     | 7                          | 2  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Chippewa    | 0                          | 3  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Clark       | 6                          | 1  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Columbia    | 10                         | 7  | 3  | 3  | 0                       | 0  | 0  | 1  |
| Crawford    | 5                          | 1  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Dane        | 32                         | 17 | 6  | 3  | 0                       | 1  | 0  | 0  |
| Dodge       | 16                         | 4  | 6  | 6  | 0                       | 0  | 0  | 0  |
| Door        | 3                          | 3  | 2  | 59 | 0                       | 0  | 0  | 4  |
| Douglas     | 0                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Dunn        | 0                          | 3  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Eau Claire  | 0                          | 6  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Florence    | 1                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Fond Du Lac | 8                          | 12 | 1  | 0  | 0                       | 0  | 0  | 0  |
| Forest      | 4                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Grant       | 10                         | 6  | 3  | 3  | 0                       | 1  | 0  | 0  |
| Green       | 7                          | 1  | 2  | 0  | 0                       | 0  | 0  | 0  |
| Green Lake  | 5                          | 1  | 2  | 0  | 0                       | 0  | 0  | 0  |
| Iowa        | 7                          | 2  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Iron        | 5                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Jackson     | 2                          | 0  | 2  | 3  | 0                       | 0  | 0  | 0  |
| Jefferson   | 5                          | 4  | 0  | 2  | 0                       | 0  | 0  | 0  |
| Juneau      | 8                          | 4  | 0  | 2  | 0                       | 0  | 0  | 0  |
| Kenosha     | 0                          | 18 | 2  | 0  | 0                       | 0  | 0  | 0  |
| Kewaunee    | 3                          | 1  | 4  | 0  | 0                       | 0  | 0  | 0  |
| La Crosse   | 0                          | 2  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Lafayette   | 6                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Langlade    | 1                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Lincoln     | 3                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Manitowoc   | 5                          | 3  | 1  | 2  | 0                       | 0  | 0  | 0  |
| Marathon    | 3                          | 2  | 3  | 0  | 0                       | 0  | 0  | 0  |
| Marinette   | 6                          | 0  | 1  | 6  | 0                       | 0  | 0  | 0  |
| Marquette   | 1                          | 3  | 2  | 2  | 0                       | 0  | 0  | 0  |
| Menominee   | 0                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Milwaukee   | 2                          | 2  | 2  | 0  | 0                       | 0  | 0  | 0  |
| Monroe      | 5                          | 3  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Oconto      | 5                          | 4  | 2  | 1  | 0                       | 0  | 0  | 0  |
| Oneida      | 1                          | 4  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Outagamie   | 9                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Ozaukee     | 1                          | 3  | 5  | 0  | 0                       | 0  | 0  | 0  |
| Pepin       | 0                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Pierce      | 2                          | 1  | 3  | 0  | 0                       | 0  | 1  | 0  |
| Polk        | 1                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Portage     | 3                          | 3  | 4  | 0  | 0                       | 0  | 0  | 0  |
| Price       | 3                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Racine      | 1                          | 6  | 4  | 0  | 0                       | 0  | 0  | 0  |
| Richland    | 5                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Rock        | 7                          | 12 | 4  | 6  | 0                       | 0  | 0  | 0  |
| Rusk        | 1                          | 2  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Sauk        | 9                          | 4  | 6  | 3  | 0                       | 0  | 0  | 0  |
| Sawyer      | 1                          | 1  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Shawano     | 9                          | 1  | 0  | 3  | 0                       | 0  | 0  | 0  |
| Sheboygan   | 7                          | 3  | 1  | 1  | 0                       | 0  | 0  | 0  |
| St. Croix   | 1                          | 3  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Taylor      | 2                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Trempealeau | 4                          | 2  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Unknown     | 0                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Vernon      | 5                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Vilas       | 3                          | 8  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Walworth    | 2                          | 3  | 2  | 0  | 0                       | 0  | 0  | 0  |
| Washburn    | 1                          | 1  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Washington  | 1                          | 7  | 4  | 0  | 0                       | 0  | 0  | 0  |
| Waukesha    | 3                          | 6  | 6  | 1  | 0                       | 0  | 0  | 0  |
| Waupaca     | 6                          | 2  | 0  | 3  | 0                       | 0  | 0  | 0  |
| Waushara    | 4                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Winnebago   | 4                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Wood        | 4                          | 4  | 1  | 2  | 0                       | 0  | 0  | 0  |

## January 2016

### Report on Public Water System Testing

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# NEWS

ABOUT  
WSLH

WSLH  
SERVICES

LAB NETWORKS  
& SURVEILLANCE

RESEARCH  
SUPPORT CENTER

NEWS  
& PUBLICATIONS

## Influenza Genome Sequencing Project Wins CDC Award



WSLH Microbiologists Rich Griesser and Tonya Danz performing Whole Genome Sequencing testing on influenza viruses.

A pilot project at the Wisconsin State Laboratory of Hygiene (WSLH) to perform Whole Genome Sequencing on influenza viruses received the Excellence in Domestic Partnering Award from the National Center for Immunization and Respiratory Diseases (NCIRD) at the Centers for Disease Control and Prevention (CDC).

The WSLH is in the first year of a 3-year project funded by the CDC to pilot Next Generation Whole Genome Sequencing of influenza viruses submitted for surveillance from Wisconsin and other states.

The WSLH is the first state public health laboratory in the country to collaborate with the CDC on this cutting-edge technology. The WSLH has been 1 of 3 CDC-designated National Influenza Surveillance Reference Centers since 2009.

Genetic characterization of influenza viruses is important both for monitoring genetic drift (how the virus may be changing) and for selecting the virus strains to include in influenza vaccines. Next Generation Sequencing (NGS) in state public health

laboratories could potentially shave months off the vaccine development process.

"This is a big recognition at CDC," said Dr. Peter Shult, director of the WSLH Communicable Disease Division and Emergency Response. "I am very proud of the hard work of our staff, especially (microbiologists) Tonya Danz and Rich Griesser, (electronic laboratory reporting coordinator) Mary Wedig, and our WSLH IT staff. This type of public health work is what the WSLH is all about."

### Previous Stories about the Project

[Building a Better Flu Vaccine](#)

[Getting CLARITY on Whole Genome Sequencing](#)

**Date:** December 21st, 2015

[← 2015 Holiday Schedule](#)

Focus articles are part of a regular series intended to sharpen understanding of current and emerging topics of interest to the scientific community.

## Are Harmful Algal Blooms Becoming the Greatest Inland Water Quality Threat to Public Health and Aquatic Ecosystems?

Bryan W. Brooks,\*† James M. Lazorchak,‡ Meredith D.A. Howard,§ Mari-Vaughn V. Johnson,|| Steve L. Morton,# Dawn A.K. Perkins,†† Euan D. Reavie,‡‡ Geoffrey I. Scott,§§ Stephanie A. Smith,|||| and Jeffery A. Steevens###

†Department of Environmental Science, Center for Reservoir and Aquatic Systems Research, Institute of Biomedical Studies, Baylor University, Waco, Texas, USA

‡Office of Research and Development, US Environmental Protection Agency, Cincinnati, Ohio, USA

§Southern California Coastal Water Research Project, Costa Mesa, California, USA

||Natural Resources Conservation Service, US Department of Agriculture, Temple, Texas, USA

#National Centers for Coastal Ocean Science, Center for Coastal Environmental Health and Biomolecular Research, National Oceanic and Atmospheric Administration, Charleston, South Carolina, USA

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‡‡Natural Resources Research Institute, Center for Water and the Environment, University of Minnesota-Duluth, Duluth, Minnesota, USA

§§Department of Environmental Health Science, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina, USA

||||Beagle Bioproducts, Columbus, Ohio, USA

###US Army Engineer Research and Development Center, Vicksburg, Mississippi, USA

**Abstract**—*In this Focus article, the authors ask a seemingly simple question: Are harmful algal blooms (HABs) becoming the greatest inland water quality threat to public health and aquatic ecosystems? When HAB events require restrictions on fisheries, recreation, and drinking water uses of inland water bodies significant economic consequences result. Unfortunately, the magnitude, frequency, and duration of HABs in inland waters are poorly understood across spatiotemporal scales and differentially engaged among states, tribes, and territories. Harmful algal bloom impacts are not as predictable as those from conventional chemical contaminants, for which water quality assessment and management programs were primarily developed, because interactions among multiple natural and anthropogenic factors determine the likelihood and severity to which a HAB will occur in a specific water body. These forcing*

*factors can also affect toxin production. Beyond site-specific water quality degradation caused directly by HABs, the presence of HAB toxins can negatively influence routine surface water quality monitoring, assessment, and management practices. Harmful algal blooms present significant challenges for achieving water quality protection and restoration goals when these toxins confound interpretation of monitoring results and environmental quality standards implementation efforts for other chemicals and stressors. Whether HABs presently represent the greatest threat to inland water quality is debatable, though in inland waters of developed countries they typically cause more severe acute impacts to environmental quality than conventional chemical contamination events. The authors identify several timely research needs. Environmental toxicology, environmental chemistry, and risk-assessment expertise must interface with ecologists, engineers, and public health practitioners to engage the complexities of HAB assessment and management, to address the forcing factors for HAB formation, and to reduce the threats posed to inland surface water quality. Environ Toxicol Chem 2016;35:6–13. © 2015 SETAC*

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**Keywords**—Harmful algae; Climate change; Urbanization; Agriculture; Salinization; Lake and reservoir monitoring; Toxin; Ambient toxicity; Essential services of environmental public health

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 16, 2016

**BUSINESS ITEMS**

**Item 12. ELECTION OF OFFICERS FOR 2016**

**Description of the Item:**

The officers of the Wisconsin State Laboratory of Hygiene Board: Chair, Vice-Chair/Chair-Elect, and Secretary are elected at the first meeting of the calendar year. The officers serve through the end of the first meeting of the following year.

The current Board Policies and Procedures are consistent with the above decision.

*§5.05 Intent*

(a) It is declared to be the intent of the board that the position of Chair be rotated annually among the voting members of the board and that each successive Vice-Chair is also, in effect, the Chair-Elect.

**Suggested Board Action:**

The Board will nominate a member to serve as Vice-Chair/Chair Elect for the 2016 term (February 2016 – February 2017).

**Draft Motion:** To be considered February 16th, 2016

**Move the nomination, in accord with Article 5, Policies and Procedures, of the following for officers of the WSLH Board of Directors: Jeffery Kindrai for the position of Chair, James Morrison for the position of Vice-Chair/Chair-Elect, and WSLH Director/Interim Director for the position of Secretary for the year 2016 term.**