

**Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018
Madison, Wisconsin**

DATE: December 12, 2018

TO: Dean Robert N. Golden, MD, UW-SMPH – Dr. Richard Moss, Designated Representative
Linda Seemeyer, Secretary, DHS – Karen McKeown, Designated Representative
Daniel Meyer, Secretary, DNR – Joseph Liebau Jr., Designated Representative
Sheila Harsdorf, Secretary, DATCP –Gilbert (Gil) Kelley, Designated Representative
Dr. Richard Moss, Chair
Dr. Robert Corliss, Vice-Chair
Barry Irmén, Member
Jeffrey Kindrai, Member
James Morrison, Member

Zana Sijan, DNR Alternate
Steve Geis, DNR Alternate
Charles Warzecha, DHS Alternate

FROM: Dr. James Schauer, 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
December 18, 2018
1:00 p.m. — 4:00p.m.

C: Allen Benson
Cynda DeMontigny
Nicholas Florek
Christine Gunter
Kristine Hansbery
Kevin Karbowski
Jan Klawitter
Dr. Daniel Kurtycz
Meshel Lange
Dr. Peter Shult
Noel Stanton
Steve Strebél
Ann Valley
David Webb

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

MEETING NOTICE

Tuesday, December 18, 2018

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, December 18th, 2018 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,



James J. Schauer, PhD, P.E., M.B.A.
Secretary, Wisconsin State Laboratory of Hygiene Board of Directors
Director, Wisconsin State Laboratory of Hygiene
December 12, 2018

Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018
1:00 P.M. – 4:00 P.M.

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

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Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018

PROCEDURAL ITEMS

Item 1. ROLL CALL

Description of Item:

Roll call of attendance at Board Meeting led by Board Chair.

Suggested Board Action:

Submit roll call

Staff Recommendation and Comments:

Roll call will be recorded by Board Secretary

Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018

PROCEDURAL ITEMS

Item 2. APPROVAL OF MINUTES

Description of Item:

The draft minutes of the September 18th, 2018 board meeting are submitted for approval.

Suggested Board Action:

Motion: Approve the draft minutes of the September 18th, 2018 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
December 18th, 2018**

**APPROVED MINUTES
September 18th, 2018
10:00 A.M. – 12:00 P.M.
Milwaukee County Medical Examiner's Office
933 W Highland Ave.
Milwaukee, WI 53233**

MEMBERS PRESENT: Chair Dr. Richard Moss, Secretary Dr. Jamie Schauer, Jeffery Kindrai, Barry Irmen, Mark Werner, Steve Geis, Gil Kelley, and James Morrison

WSLH STAFF PRESENT: Dr. Vanessa Horner, Dr. Daniel Kurtycz, David Webb, Christine Gunter, Diane Kalscheur, Cynda DeMontigny, Kristine Hansbery, Jan Klawitter, Kevin Karbowski, Allen Benson, Jim Sterk, and Nathaniel Javid

DNR STAFF PRESENT: Zana Sijan

GUESTS PRESENT: None

Chair Dr. Richard Moss called the meeting to order at 10:00 P.M.

Item 1. ROLL CALL

Chair Dr. Richard Moss initiated the roll call of the Board. All Board Member seats or designated representatives were present except Dr. Robert Corliss and Charles Warzecha.

Item 2. APPROVAL OF MINUTES

Approve the minutes of the June 19, 2018 Board Meeting as submitted. Barry Irmen presented a correction to the attendance of the June minutes that included the removal of James Wenzler from the attendance list. **Steve Geis** made a motion to approve the minutes with the aforementioned correction. **Jeffery Kindrai** seconded the motion. The voice vote approving the corrected minutes was unanimous.

Item 3. REORGANIZATION OF AGENDA

There was no reorganization of the agenda.

Item 4. PUBLIC APPEARANCES

There were no public appearances.

Item 5. BOARD MEMBERS' MATTERS

Jeffery Kindrai mentioned the recent flooding damage in Wisconsin and expressed thanks to the Wisconsin State Laboratory of Hygiene (WSLH) for their water testing during this period. Mr. Kindrai also mentioned he was notified that rabies testing is being piloted by the WSLH and asked WSLH representatives for clarification. Jan Klawitter, WSLH Public Affairs Manager, responded that we can provide an update on both of these topics at the December Board Meeting.

Chair Dr. Richard Moss had Secretary Dr. James Schauer speak on the topic of branding. Dr. Schauer responded that we need to focus our efforts on branding ourselves within UW Madison and around campuses statewide for the stakeholders around the state. Dr. Moss replied that he looks forward to seeing more of this initiative in the future.

Item 6. FINANCIAL REPORT

■ Kevin Karbowski, Chief Financial Officer, Wisconsin State Laboratory of Hygiene

Mr. Karbowski provided the budget report through June 30, 2018. Our net income as of June 30th is \$112,738, which is \$1,609 less than what we had budgeted. We experienced some significant variances in revenue and expenses. Some positive variances were from the Department of Health Services related to capital purchases for forensic toxicology and the ELC contract. We also had a large positive variance for performing additional activity for UWSMPH and the SHOW program (survey for the health of Wisconsin). The negative variances on the clinical side were due to losing Gundersen Health. Other large negative variances were due to correcting our reporting of APHL revenue. Our large variances on expenses are for supplies and services. Over \$1M of these expenses are due to the additional activity we experienced, which has largely been offset. Our balance sheet also shows equipment that we have leased but plan to purchase, and this is reflected negatively.

We also have a negative bad debt expense. This is due to an adjustment in our accounting practices. Our balance sheet now has a more realistic allowance for bad debt. We also recorded the loss of a freezer before the end of its depreciable life.

For working capital, our available working capital is \$9,669,680 as of June 30, 2018 which is \$142,632 less than it was on June 30, 2017. This is due to planned future investments.

Item 7. SCIENTIFIC PRESENTATION

Molecular Autopsy: Genetic Testing for Sudden Cardiac Death in the Young

■ Vanessa Horner, PhD, FACMG, Cytogenetics and Molecular Genetics Services, Disease Prevention Division, WSLH

Chair Dr. Richard Moss introduced Dr. Vanessa Horner of the WSLH for the Board's Scientific Presentation. Dr. Horner discussed her laboratory's experience using genetic testing to help determine the cause of sudden cardiac death in the young (those under age 40). Sudden cardiac death is defined as a death occurring within about an hour of the onset of symptoms in an otherwise healthy person, due to an underlying cardiac disease. Sudden cardiac death

(SCD) can occur at any age, however, young individuals are much more likely to have an underlying genetic disorder leading to SCD.

The genetic disorders linked to SCD are sorted into two main categories: structural heart disease, in which the heart is structurally abnormal, and arrhythmogenic disorders, in which a structurally normal heart has defects in its electrical conduction system. In the majority of cases, there is a structural cause. However, SCD can also be due to inherited cardiomyopathies. Hypertrophic cardiomyopathy is the most common followed by arrhythmogenic right ventricular cardiomyopathy. Other kinds of cardiomyopathy include dilated cardiomyopathy and restrictive cardiomyopathy.

Although a cause of death is usually found in a postmortem examination, some unclear findings may be further explained by genetic testing. This molecular autopsy can help us understand the underlying or genetic cause of death. This is especially crucial for prevention in warning and protecting family members.

The use of genetic testing in SCD began over a decade ago, in sequencing four genes that are associated with arrhythmias. Several studies have shown that sequencing these four genes in cases of unexplained SCD yields a clinically significant finding about 9-15% of the time. However, recent advances in sequencing technologies have made it feasible to greatly increase the number of genes you can sequence at a time. Dr. Horner explained their approach in developing a gene panel consisting of 109 genes that includes 24 associated with arrhythmia, 65 with cardiomyopathy, and 20 with both. Dr. Horner was approached by a genetic counselor at the Inherited Arrhythmias Clinic at UW Hospital to develop a program for individuals suspected to have suffered unexplained sudden cardiac death. Dr. Horner and the clinic designed this 109 gene panel.

Dr. Horner next explained the molecular autopsy process. First, the pathologist or medical examiner performing the autopsy identifies appropriate candidates for genetic testing. Next, the family is referred to the Inherited Arrhythmias Clinic for counseling. If they are good candidates and want sequencing, they are then consented and sequencing is performed. If a causative mutation is found, targeted testing on at-risk family members is performed.

This program started about two years ago and is currently internally funded. Seven cases have been done so far, but Dr. Horner explained that they are looking for funding opportunities to expand the program and potentially make it state-wide.

Dr. Horner next went over the of details cases of the seven patients that have been sequenced so far, and their pathogenic variants.

Dr. Horner noted types of testing that they are either beginning to pursue or are considering pursuing as a public health genomics laboratory. They are beginning a pilot project with a pathology resident at the UW to expand their molecular autopsy program to include sudden unexplained infant death. In addition, Dr. Horner is beginning a collaborative research project with Patrice Held, WSLH Director of Biochemical Genetics, and Amy Peterson, a pediatric cardiologist at UW Madison, to bring on genetic testing for familial hypercholesterolemia. Other future directions for consideration include recommended testing from the CDC's Office of Public Health Genomics, which created evidence based recommendations for the use of genetic testing in public health. To date, there are two areas where genetic testing is recommended: colorectal cancer and women with a family history of breast and/or ovarian cancer.

The Board thanked Dr. Horner for her very informative presentation and Dr. Horner answered several questions from Board Members on appropriate ages for genetic testing and discrimination based on genetic findings along with comments on the importance of this work.

Item 8. APPROVE FEE INCREASE

■ Kevin Karbowski, Chief Financial Officer, Wisconsin State Laboratory of Hygiene

Mr. Karbowski reminded the Board that at the June Board Meeting we discussed proposing a 5% increase for services effective January 1, 2019. This will help address an increase in costs. The increase will be across the board except for newborn screening, NADP, contracts with set prices, and grants with set prices. This was discussed in June with the intention of the Board to consider and approve at the September meeting. Jeffery Kindrai mentioned concerns on how this would affect the agreement with DHS. Dr. Schauer responded that we also will receive our state GPR increase, allowing for an increase in testing and salaries, so an increase in prices would be congruous. Dr. Schauer mentioned that we would like a motion from the Board in support of this increase and reiterated that we have ensured enough time to inform our customers for necessary preparations. Jeffery Kindrai made a motion to support the 5% increase cautioning that this will be monitored. The motion was seconded by Steve Geis. The motion passed unanimously and the 5% increase was approved by a voice vote. Dr. Moss noted that the Board can approve the increase, but does not have authority to mandate it.

Item 9. APPROVE WSLH BOARD POLICIES & PROCEDURES

■ Jan Klawitter, Public Affairs Manager, Wisconsin State Laboratory of Hygiene

Ms. Klawitter provided some background on the Board Policies & Procedures that have been updated over this past year, including some revisions by former Board Member, James Wenzler. The Policies & Procedures have been thoroughly reviewed by WSLH staff and UW Legal. In June, we presented the Board with a clean version and redlined version of the Policies & Procedures for the Board to review and approve at the September meeting. Jeffery Kindrai noted some confusion about the “governmental” and “non-governmental” seats on the Board, which Ms. Klawitter clarified. Barry Irmen commented that it appeared some contract authority was taken away from the lab director. Ms. Klawitter clarified that these changes were made in accordance with UW Legal following the lab director’s appropriate contract authority (granted by the Chancellor and not by the Board). Barry Irmen made a motion to approve the updated Policies and Procedures. James Morrison seconded the motion and the approval of the Policies and Procedures passed unanimously by a voice vote.

Item 10. HUMAN RESOURCES REPORT

■ Cynda DeMontigny, Human Resources Director, Wisconsin State Laboratory of Hygiene

Ms. DeMontigny went over the human resources report from June 2nd to September 11th of 2018. For recruitments, we have six in the Disease Prevention Division (DPD), five in the Environmental Health Division (EHD), none in the Laboratory Improvement Division (LID), three in the Communicable Disease Division (CDD), two in Administration, and one in the Occupational Health Division (OHD) for a total of 17.

For hires, we had two in DPD, eleven in EHD, zero in LID, one in CDD, five in Administration, and two in OHD. For resignations, we had two in DPD, EHD one in LID, and zero in CDD, OHD, and Administration. There were no retirements during this period.

Item 11. CONTRACTS REPORT

■ Christine Gunter, Financial Program Supervisor, Wisconsin State Laboratory of Hygiene

For September 2018, we have received \$7,027, 662 in contracts broken down by CDD (\$1,507,372), EHD (\$2,697, 054), and NADP (\$2,823,236). The remaining funds are divided among APHL, WDHS, EPA, USFWS, and NYSERDA.

Item 12. DIRECTOR'S REPORT

■ Dr. James Schauer, Director, Wisconsin State Laboratory of Hygiene

Jan Klawitter went over the recent public and environmental health incidents at the WSLH. The WSLH chemical emergency response unit has developed a method and test for synthetic cannabinoid coagulopathy. As of early September, there have been 54 cases in Wisconsin and this is an ongoing issue. An article featuring the WSLH regarding this was published in APHL's Lab Matters Publication. Dr. Schauer was named an Envoy by the US State Department, and was tasked with putting together a program at the WSLH for an air quality delegation visit from Southeast Asia in July. The WSLH hosted an ARLN regional meeting for the Midwest. The WSLH has also been involved in multiple Wisconsin Clinical Laboratory Network activities along with presenting at the APHL Annual Meeting in June. The WSLH Cytogenetics and Newborn Screening departments hosted sessions at the UW Grandparents University program. Communicable Disease Division Director, Peter Shult, was named a "Flu Fighter" by the CDC.

The Board approved our strategic plan with our eleven strategic initiatives. Dr. Schauer had Kevin Karbowski and Allen Benson (WSLH) provide updates on cytogenetics and eBusiness, respectively. Kevin Karbowski gave a brief update on the financial statements of the cytogenetics program, analyzing which areas are self-sustainable and which areas are losing money. Our goal is to ensure prices cover costs. At this point, we are analyzing the results. We are also looking at innovative investments for testing methods. Dr. Moss noted the excitement and investment from the UW in this initiative.

Mr. Benson next presented on eBusiness. The WSLH 2018 Strategic Plan included specific initiatives for eBusiness and Web Portal capabilities, as well as defining our support role going forward for our LIMS environments. These initiatives are lab-wide and will deliver capabilities to all divisions of the organization. The scope of this work includes websites, content management, Enterprise Resource Planning (ERP), LIMS support, and call centers. For websites, we are currently reviewing content and having focus group meetings to define requirements. For ERP, we are currently working with UW Business Systems and a proposal is being reviewed. For LIMS support, the initial staffing is complete but we are refining support transition plans. For the Call Centers (new Cisco phones), we are reviewing the proposal from the UW network services team for a collaborative network to support the Cisco phone integration with the Henry Mall facility.

Mr. David Webb, Director of the WSLH Environmental Health Division, noted a new test that has been implemented on Perfluorinated Compounds (PFC's) in water and soil sediment. We have done this before in fish testing, but we are currently developing this for water and soil. We plan to validate and continue our development of these methods for the DNR and others. Prices will be developed and are highly dependent on batch size. This test is the result of emerging concerns of PFCs in the environment. Dr. Schauer noted that this is a huge emerging issue at the federal level.

The Board reviewed the Water Systems Boil Notice Report for the period of June 2018 through August 2018. In this period, there was one boil notice for Dane and Door counties, two boil notices for Sr. Croix County, and three boil notices for Lafayette County.

Dr. Schauer mentioned that the next Board Meeting will take place at the WSLH Agriculture Drive Facility on December 18th, 2018.

Chair Dr. Richard Moss made a motion to adjourn the meeting at 11:45 A.M. **Jeffery Kindrai** seconded the motion. The motion passed unanimously and the meeting was adjourned.

Respectfully submitted by:



James J. Schauer, PhD, P.E., M.B.A.
Secretary, Wisconsin State Laboratory of Hygiene Board of Directors

Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018

PROCEDURAL ITEMS

Item 3. 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 if requested by the Board.

**Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018**

PROCEDURAL ITEMS

Item 4. 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: nathaniel.javid@slh.wisc.edu

Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018

BUSINESS ITEMS

Item 5. 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
December 18, 2018

BUSINESS ITEMS

Item 6. FINANCIAL REPORT

Description of the Item:

Kevin Karbowski, WSLH Chief Financial Officer, will provide the October 2018 Financial Report to the Board.

Suggested Board Action:

Review and provide input.

Staff Recommendations and Comments:

Receive for information.

WISCONSIN STATE LABORATORY OF HYGIENE

FINANCIAL REPORT

FISCAL YEAR 2019

October 31, 2018

Contents

FINANCIAL STATEMENTS

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Comparative income statement

Comparative balance sheet

Statement of cash flows

Notes to the financial statements

**Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018**

**WISCONSIN STATE LABORATORY OF HYGIENE
STATEMENT OF INCOME
For the period July 1, 2018 through October 31, 2018**

	Year to Date Actual	Year to Date Budget	Variance Over/(Under)	Variance % of Budget	Fiscal Year 2019 Annual Budget
SUPPORT AND REVENUE					
Laboratory Services Revenues (Note 2)					
Department of Health Services	\$ 2,404,860	\$ 2,316,921	\$ 87,939	3.8%	\$ 7,824,593
Newborn Screening	1,864,587	1,814,770	49,817	2.7%	5,199,034
Driver Improvement Surcharge (OWI)	520,248	522,017	(1,769)	-0.3%	1,619,200
Department of Natural Resources	215,509	281,844	(66,335)	-23.5%	732,318
University of Wisconsin Systems	241,753	218,085	23,668	10.9%	685,240
Other Wisconsin State and Local Agencies	148,499	13,583	134,916	993.3%	62,609
Wisconsin State and Local Agencies	5,395,456	5,167,220	228,236	4.42%	16,122,994
Clinical	1,919,555	1,737,048	182,507	10.5%	5,145,626
Proficiency Testing	1,054,726	1,062,066	(7,340)	-0.7%	3,175,246
Occupational Health	614,490	638,000	(23,510)	-3.7%	1,894,000
Association of Public Health Laboratories	249,002	342,500	(93,498)	-27.3%	1,512,000
National Atmospheric Deposition Program	703,491	616,367	87,124	14.1%	1,849,104
Federal Agencies	89,963	63,572	26,391	41.5%	178,277
Environmental Testing	359,621	625,436	(265,815)	-42.5%	1,529,514
Other Nonagency	111,882	97,203	14,679	15.1%	287,072
Nonagency	5,102,730	5,182,192	(79,462)	-1.5%	15,570,839
Sponsored Projects	2,324,184	2,299,856	24,328	1.1%	6,303,637
Earnings - Investment Income	83,968	76,000	7,968	10.5%	260,000
Program Revenue	12,906,338	12,725,268	181,070	1.4%	38,257,470
State General Program Revenue (GPR)	3,687,661	3,692,165	(4,504)	-0.1%	11,300,000
TOTAL SUPPORT AND REVENUE	16,593,999	16,417,433	176,566	1.1%	49,557,470
EXPENSES					
Salaries	6,309,857	6,394,153	(84,296)	-1.3%	19,942,263
Fringe Benefits	2,667,400	2,787,672	(120,272)	-4.3%	7,690,556
Supplies & Services	5,029,217	4,961,356	67,861	1.4%	15,645,390
Transfer Overhead to UW	327,314	318,154	9,160	2.9%	891,514
Building Rent	1,026,896	994,454	32,442	3.3%	3,059,139
Depreciation	641,984	595,250	46,734	7.9%	1,932,088
Bad Debt Expense	2,000	2,000	0	0.0%	6,000
Interest Expense	13,112	11,600	1,512	13.0%	39,000
Loss From Disposal Of Assets	15,358	-	15,358		-
TOTAL EXPENSES	16,033,138	16,064,639	(31,501)	-0.2%	49,205,950
NET OPERATING INCOME (LOSS)	\$ 560,861	\$ 352,794	\$ 208,067	59.0%	\$ 351,520

WISCONSIN STATE LABORATORY OF HYGIENE
COMPARATIVE INCOME STATEMENT
For the 4 months ended October 31, 2018 and October 31, 2017

	Current Year Actual	Prior Year Actual	Variance Over/(Under)	Percentage Change
SUPPORT AND REVENUE				
Laboratory Services Revenues (Note 2)				
Department of Health Services	\$ 2,404,860	\$ 2,281,997	\$ 122,863	5.4%
Newborn Screening	1,864,587	1,869,726	(5,139)	-0.3%
Driver Improvement Surcharge (OWI)	520,248	551,940	(31,692)	-5.7%
Department of Natural Resources	215,509	263,903	(48,394)	-18.3%
University of Wisconsin Systems	241,753	247,940	(6,187)	-2.5%
Other Wisconsin State and Local Agencies	148,499	9,787	138,712	1417.3%
Wisconsin State and Local Agencies	5,395,456	5,225,293	170,163	3.26%
Clinical	1,919,555	1,662,273	257,282	15.5%
Proficiency Testing	1,054,726	1,014,094	40,632	4.0%
Occupational Health	614,490	638,985	(24,495)	-3.8%
Association of Public Health Laboratories	249,002		249,002	
National Atmospheric Deposition Program	703,491		703,491	
Federal Agencies	89,963	464,927	(374,964)	-80.7%
Environmental Testing	359,621	617,272	(257,651)	-41.7%
Other Nonagency	111,882	30,295	81,587	269.3%
Nonagency	5,102,730	4,427,846	674,884	15.2%
Sponsored Projects	2,324,184	1,928,083	396,101	20.5%
Earnings - Investment Income	83,968	40,112	43,856	109.3%
Program Revenue	12,906,338	11,621,334	1,285,004	11.1%
State General Program Revenue (GPR)	3,687,661	3,748,998	(61,337)	-1.6%
TOTAL SUPPORT AND REVENUE	16,593,999	15,370,332	1,223,667	8.0%
EXPENSES				
Salaries	6,309,857	5,752,916	556,941	9.7%
Fringe Benefits	2,667,400	2,500,742	166,658	6.7%
Supplies & Services	5,029,217	4,874,677	154,540	3.2%
Transfer Overhead to UW	327,314	287,769	39,545	13.7%
Building Rent	1,026,896	996,463	30,433	3.1%
Depreciation	641,984	654,699	(12,715)	-1.9%
Bad Debt Expense	2,000	1,449	551	38.0%
Interest Expense	13,112	6,943	6,169	88.9%
Loss From Disposal Of Assets	15,358	4,410	10,948	248.3%
TOTAL EXPENSES	16,033,138	15,080,068	953,070	6.3%
NET OPERATING INCOME (LOSS)	\$ 560,861	\$ 290,264	\$ 270,597	93.2%

WISCONSIN STATE LABORATORY OF HYGIENE
COMPARATIVE BALANCE SHEET
As of October 31, 2018 and June 30, 2018

ASSETS

	<u>October 31, 2018</u>	<u>June 30, 2018</u>
CURRENT ASSETS		
Cash	\$ 12,380,408	\$ 11,093,549
Cash-restricted-newborn screening surcharge	2,177,528	1,921,138
Net accounts receivables (Note 3)	4,955,957	4,273,102
Other receivables	257,364	642,898
Inventories	34,827	44,106
Prepaid expenses	430,310	296,215
Total current assets	20,236,394	18,271,008
EQUIPMENT AND BUILDING IMPROVEMENTS		
Equipment	27,753,306	27,202,326
Building improvements	6,822,509	6,822,509
	34,575,815	34,024,835
Less accumulated depreciation	(24,243,412)	(23,914,813)
Total net fixed assets	10,332,403	10,110,022
Total Assets	<u>\$ 30,568,797</u>	<u>\$ 28,381,030</u>

LIABILITIES AND EQUITY

CURRENT LIABILITIES

Salaries and fringe benefits payable	\$ 7,196	\$ 20,906
Accounts payable	1,208,305	609,668
Accrued expenses	260,447	153,164
Deferred revenue	95,000	17,740
Compensated absences (Note 4)	659,591	617,515
Proficiency testing deferred revenue	1,612,898	1,053,933
Newborn screening deferred revenue	2,348,379	2,306,299
Newborn screening surcharge payable	2,177,528	1,921,138
Total current liabilities	8,369,344	6,700,363

LONG TERM DEBT

Compensated Absences (Note 4)	1,674,824	1,779,089
Total long term debt	1,674,824	1,779,089
Total Liabilities	<u>10,044,168</u>	<u>8,479,452</u>

EQUITY

Retained earnings-restricted (Note 5)		
Operating contingency	2,060,980	1,900,965
Total restricted retained earnings	2,060,980	1,900,965 ²⁰
Net Operating Income (Loss)	560,861	112,738

WISCONSIN STATE LABORATORY OF HYGIENE
STATEMENT OF CASH FLOWS
For the 4 months ended October 31, 2018 and October 31, 2017

	Current Year	Prior Year
CASH FLOWS FROM OPERATING ACTIVITIES		
Net income	\$ 560,861	\$ 290,264
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation	641,984	654,699
Changes in working capital components:		
Decrease/(Increase) in net accounts receivables	(682,855)	(442,318)
Decrease/(Increase) in other receivables	385,534	718,685
Decrease/(Increase) in inventories	9,279	23,956
Decrease/(Increase) in prepaid expenses	(134,095)	(285,316)
(Decrease)/Increase in salaries payable	(13,710)	26,125
(Decrease)/Increase in accounts payable	598,637	212,552
(Decrease)Increase in accrued expenses	107,283	117,844
(Decrease)Increase in deferred revenue	77,260	309,592
(Decrease)Increase in proficiency testing deferred revenue	558,965	400,353
(Decrease)/Increase in newborn screen deferred revenue	42,080	(60,984)
(Decrease)/Increase in newborn screening surcharge payable	256,390	(181,438)
	2,407,613	1,784,014
 CASH FLOWS FROM INVESTING ACTIVITIES		
Purchase of equipment and physical plant improvements	(864,364)	(702,742)
	(864,364)	(702,742)
 CASH FLOWS FROM FINANCING ACTIVITIES		
Principal payment on Capital Lease	-	-
	-	-
 Net increase (decrease) in cash		
	1,543,249	1,081,272
 Cash:		
Beginning	13,014,687	13,883,259
Ending	\$ 14,557,936	\$ 14,964,531

WISCONSIN STATE LABORATORY OF HYGIENE
NOTES TO THE FINANCIAL STATEMENTS
For the period July 1, 2018 through October 31, 2018

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 2018-2019 operating budget amounts were approved by the WSLH Board on June 19, 2018.

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 October 31, 2018 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 - 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 Health Services
 Newborn Screening
 Driver Improvement Surcharge (OWI)
 Department of Natural Resources
 University of Wisconsin Systems
 Municipalities
 Law Enforcement Agencies
 Department of Agriculture, Trade and Consumer Protection
 Office of Justice Assistance
 Wisconsin Emergency Management

Non-Agency:

UW Hospital Authority
 Medicare and Medicaid
 Proficiency Testing
 Occupational Health
 Federal Agencies
 All other revenue from individuals, businesses, clinics, and hospitals.

NOTE 3 - ACCOUNTS RECEIVABLE

- Accounts receivable and allowance for uncollectible account balances as of October 31, 2018 and June 30, 2018 are as follows:

	<u>October 31, 2018</u>	<u>June 30, 2018</u>
Accounts Receivable Total	\$5,072,892	\$4,398,102
Allowance for bad debt	<u>(116,935)</u>	<u>(125,000)</u>
Net Receivables	\$4,955,957	\$4,273,102

NOTE 4 - 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	Sabbatical
Current	\$659,591	\$470,897	\$74,084	\$17,248	\$97,362
Long Term	<u>1,674,824</u>				<u>1,674,824</u>
	\$2,334,415	\$470,897	\$74,084	\$17,248	\$1,772,186

NOTE 5 - 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 October 31, 2018 working capital (current assets less current liabilities) was \$11,867,050 thereby meeting the target contingency reserve requirement of \$2,060,980.

**Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018**

BUSINESS ITEMS

Item 7. STRATEGIC PLAN UPDATES

- 1) Biomonitoring: LRN-C (Laboratory Response Network for Chemical Threats)
Noel Stanton & Meshel Mork, WSLH Environmental Health Division

- 2) Outreach Communications: Jan Klawitter, WSLH Public Relations

Description of the Item:

Noel Stanton and Meshel Mork (WSLH) will present on the LRN-C as part of the Biomonitoring Strategic Plan Update. Jan Klawitter (WSLH) will provide the Outreach Communications Strategic Plan Update.

Suggested Board Action:

Receive for information.

Staff Recommendations and Comments:

Receive for information.

Wisconsin State Laboratory of Hygiene
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BUSINESS ITEMS

Item 8. SCIENTIFIC PRESENTATION

- 1) ARLN and Next Generation Sequencing
Nick Florek, PhD & Ann Valley (WSLH CDD)

Description of the Item:

Nick Florek, PhD and Ann Valley from the WSLH Communicable Disease Division will present on the Antibiotic Resistance Laboratory Network (ARLN) and Next Generation Sequencing.

Suggested Board Action:

Receive for information.

Staff Recommendations and Comments:

Receive for information.

Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018

BUSINESS ITEMS

Item 9. HUMAN RESOURCES REPORT

- a) Cynda DeMontigny, Human Resources Director, WSLH

Description of the Item:

Cynda DeMontigny will provide the HR update from the period of September 12 – December 7, 2018 to the Board.

Suggested Board Action:

Receive for information.

Staff Recommendations and Comments:

Receive for information.

**Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018**

Retirements

September 12, 2018 to December 7, 2018

	AS	US	
DPD	0	0	
EHD	0	1	
LID	0	0	
CDD	0	0	
Admin	0	0	
OHD	0	0	Total
	0	1	0

New Employees

September 12, 2018 to December 7, 2018

	AS	US	SH	FT	TE	
DPD	1	1	0	0	0	
EHD	3	0	3	0	0	
LID	1	0	0	0	0	
CDD	0	0	2	1	0	
Admin	0	0	0	0	0	
OHD	1	0	0	0	0	Total
	6	1	5	1	0	13

Internal Hires

	AS	US	SH	FT	LTE	
DPD	2	1				
EHD	4					
LID						
CDD	1					
ADMIN	3					
OHD						Total
	10	1				11

Current Recruitments

DPD	2
EHD	4
LID	0
CDD	4
Admin	1
OHD	1
	12

Resignations

September 12, 2018 to December 7, 2018

	AS	US	
DPD	3		
EHD	2	1	
LID			
CDD	1		
Admin		1	
OHD			Total
	6	2	8

DPD Disease Prevention Division
EHD Environmental Health Division
LID Laboratory Improvement Division
CDD Communicable Disease Division
OHD Occupational Health Division
Admin

AS Acad Staff
US Univ Staff
SH Student Hourly
FT Faculty
LTE Limited Term

Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
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BUSINESS ITEMS

Item 10. CONTRACTS REPORT

- a) Christine Gunter, Financial Program Supervisor, WSLH

Description of the Item:

The table on the following pages contains the awarded major grants and contracts that are current as of December 10, 2018. 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.

Title	Agency	Amount	Start	End	Division	Description
Pakistan NBS with ARBO International	ARBO	\$1,220.00	9/1/2018	8/31/2020	DPD	NBS cards and resulting for ARBO International The objective of this project is to evaluate and validate, in the Wisconsin State Newborn Screening Public Health Laboratory, a high-throughput screening method to measure and distinguish enzyme activities in triplex for each of tripeptidyl peptidase 1 (TPP1), N-acetyl galactosamine 6-sulfatase (GALNS), and arylsulfatase B (ASB) (Table 1) as measured in de-identified newborn dried blood spots (DBSS) versus disease-affected/reference control dried DBSS.
BioMarin Screening Method -Measure/Distinguish Enzyme activity	BioMarin Pharmaceutical Inc	\$145,000.00	11/1/2017	12/31/2018	NBS	Dept of Justice funding thru Coverdell for Forensic Tox travel to various conferences
Coverdell Travel Expenses 2018	Dept of Justice	\$11,030.00	1/1/2018	12/31/2018	For tox	
CSTE Optional Influenza Surveillance Enhancements Project	WDHS	\$21,275.00	7/1/2018	6/30/2019	CDD	Provide specimen collection supplies to participating IISP clinics; Diagnostic testing & subtyping for influenza A & B viruses; Testing via Luminex NxTAG Respiratory Pathogen Panel
ELC Pj B Cross Cutting Lab Capacity PPHF	WDHS	\$185,000.00	8/1/2018	7/31/2019	CDD	Semi-annual summary of specimen transport (invasive bacteria) CDD competency requirements, perform AST on all primary S. pneumoniae and N meningitidis. post data to WSLH website, improve lab coordination and outreach to public health partners.
ELC Project D : Advanced Molecular Detection	WDHS	\$230,762.00	8/1/2018	7/31/2019	CDD	WSLH will conduct tasks and/or provide the following deliverables - Along with the regional AMD Training Lead (MI Bureau of Labs) and AMD Program staff at CDC, develop performance measures to gauge progress and success; send staff to an AMD Regional Meeting; send staff to sequencing training workshop(s) sponsored by the AMD Training Lead (Michigan Bureau of Labs); Conduct a needs assessment to determine the bioinformatics needs of laboratories in the Midwest AMD region; etc.
ELC- I1,I2,I4,I5,I6 Enterics	WDHS	\$620,232.00	8/1/2018	7/31/2019	CDD	Personnel support, travel costs for FoodCore, INFORM, Bionumerics and other training, Calcinet, MiSeq service agreement, various test procedures and specimen transport.
ELC KIA HAI Detection containment and Prevention	WDHS	\$229,638.00	8/1/2018	7/31/2019	CDD	Train and educate laboratorians to perform CRE and CRPA testing. Inc lab capacity to perform routine confirmatory and CLIA compliant antimicrobial susceptibility testing. Purchase BIOMIC service agreement and LIMS interface software. Purchase ABI7500 Fast Dx and LIMS interface.
ELC K3 HAI AR Regional Lab Network	WDHS	\$1,185,022.00	8/1/2018	7/31/2019	CDD	Continue to provide reference testing for PHL's in the Midwest ARLN region.

Title	Agency	Amount	Start	End	Division	Description
ELCM1 - N2 West Nile Virus and other Arboviral Diseases	WDHS	\$155,685.00	8/1/2018	7/31/2019	CDD	Provide shipping and testing for suspect acute Wisconsin arbovirus cases, Use Arbovirus IgM or PCR panels for detecting disease due to WN, LAC, SLE, POW, JC, EEE, DEN, CHIK, and Zika viruses in WI residents and travelers to endemic areas. Non-negative viral IgM tests, except for positive WNV/SLE IgM specimens, will be submitted to CDC for PRNT testing in order to confirm arboviral infections.
ELC Respiratory P1-Influenza Surveillance and Diagnostic Testing	WDHS	\$40,008.00	8/1/2018	7/31/2019	CDD	Perform pyrosequencing on representative positive influenza specimens, neuraminidase inhibition, training and competency assessments for all virologists performing PCR, procure uncreened surveillance specimens from all 5 public health regions in WI, statewide teleconference, Annual WI Clinical Virology Conference.
ELC - Project 0 - Parasitic Diseases	WDHS	\$1,700.00	8/1/2018	7/31/2019	CDD	Performance of PCR on blood specimens determined to be positive for malaria or Babesia by microscopic examination. Shipping to CDC
ELC W2 Rabies Laboratory Capacity	WDHS	\$2,750	8/1/2018	7/31/2019	CDD	Travel NLTN/APHL rabies workshop
ELC Prj Z Waterborne Disease Detection, Investigation, Reporting and Prevention	WDHS	\$5,000.00	8/1/2018	7/31/2019	CDD	Provide waterborne disease testing, participate in monthly CDC CryptoNet calls, ELC progress report due 5/20/2018.
ELC Project J1 Threat of Antibiotic-Resistant Gonorrhea	WDHS	\$110,760.00	8/1/2018	7/31/2019	CDD	DHS coverage for Epidemiologist - Dhana Shrestha 5/7/2018 start
Intersections as Hot Spots	USC	\$96,849.00	7/1/2018	5/30/2019	EHD	Intersections as hotspots. Assessing the contribution of localized non-tailpipe emissions and noise on the association between traffic and children's health.
Cooperative Agreement Iowa DNR	DNR	\$20,212.00	11/26/2018	1/31/2019	EHD	To provide assistance to DNR in the analysis of fish tissue samples collected in the State of Iowa. There will be 4 sites with a total of 31 samples.
Newborn Screening Data and System Integration	WDHS	\$97,704.00	7/1/2018	6/30/2019	DPD	DHS staff for Data and System Integration
Out of Hospital Newborn Screening	WDHS	\$40,000.00	7/1/2018	6/30/2019	DPD	Out of Hospital outreach coordinator
NBS Program Coordinator	WDHS	\$115,518.00	7/1/2018	6/30/2019	DPD	NBS Program Coordinator - personnel exchange with DHS - Horzewski
Prescription Drug Overdose (PDO) Prevention for States	WDHS	\$13,355.00	9/1/2018	8/31/2019	For Tox	To increase the scope of death toxicology testing and quicker turnaround time for results, integrate electronic toxicology data reporting to Medical Examiners/Coroners.
Collaboration Agreement	Perkin Elmer	\$86,210.00	4/12/2017	12/31/2018	NBS	Newborn Screening TREC, KREC, & SMA MULTIPLEX qPCR Assay Feasibility Study -- evaluate the performance of a Real-time PCR prototype assay in a newborn screening environment.
Diabetes Research and Training Center Feasibility Award	U of Illinois Chicago	\$24,453.00	6/5/2018	3/31/2019	NBS	Develop an assay utilizing existing tandem mass spectrometry technology to modify to optimize the detection of glucose (hexoses)
Total		\$810,204.00				

Contracts Summary

Recap - WSLH Division	
CDD	\$ 2,787,832.00
DPD	\$ 254,442.00
EHD	\$ 117,061.00
Forensic Toxicology	\$ 24,385.00
NBS	\$ 255,663.00
Total	\$ 3,439,383.00

Recap - Contractor	
WDHS	\$ 287,852.00
WDHS - ELC (CDC)	\$ 2,766,557.00
WI Dept of Justice	\$ 11,030.00
Iowa DNR	\$ 20,212.00
Other Universities	\$ 121,302.00
Private Companies	\$ 231,210.00
International	\$ 1,220.00
	\$ 3,439,383.00

Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018

BUSINESS ITEMS

Item 11. DIRECTOR'S REPORT

a) Dr. James Schauer, Director, WSLH

1) WI Flooding Response

a) David Webb, WSLH Environmental Health Division Director

2) New Rabies Test

a) Peter Shult, PhD, WSLH Communicable Disease Division Director

3) Public or Environmental Health Incidents of Educational Interest

4) Water Systems Boil Notice Report

5) Next Board Meeting: Tuesday, March 19th, 2019

**Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
December 18, 2018**

Report to the Wisconsin State Laboratory of Hygiene Board

**Representative Public or Environmental Health Incidents of Educational Interest
September 5 – December 5, 2018**

Approx. Date	Agent or Event Name	Description	Current Status
OUTBREAKS and INCIDENTS			
March 15-current	Synthetic cannabinoid coagulopathy	<p>The WSLH Chemical Response Program’s involvement in testing for brodifacoum in blood, which is being used to diagnose and guide treatment length for patients, continues to play a national role in this outbreak.</p> <p>The WSLH developed and implemented a quantitative method to test for the rat poison, the first laboratory in the U.S to do so, and currently one of only two nationally. Program staff has presented information on the outbreak to a variety of groups, and the Lab is contributing to publications currently in preparation.</p> <p>According to the Wisconsin Department of Health Services (DHS), Wisconsin has seen 83 cases since March 2018, with 67 confirmed. New cases and follow-up testing for diagnostic purposes continue to be sent to WSLH for analysis.</p> <p>https://www.dhs.wisconsin.gov/chemical/synthetic-cannabinoids.htm</p>	Ongoing
July - Current	Acute Flaccid Mylitis (AFM)	<p>The WSLH has been assisting the public health investigation into the rise in AFM cases in Wisconsin (and nationally). Since there has been no single viral etiology identified, the CDC is leading the investigation using multiple PCR and genomic sequencing tests to identify possible etiologies. The majority of cases have identified enteroviruses including EV D68 and EV71 among others. However, other viruses have been identified including Rhinovirus, CXA16, etc. The WSLH has been coordinating the specimen transport to CDC.</p>	Ongoing

		As of November 28, Wisconsin has 6 confirmed cases, 2 ruled out as AFM, and 7 suspect cases pending at CDC.	
RECENT EVENTS and FINDINGS			
July 12, 2018	ICTR award for bladder cancer study	<p>Scientists in the WSLH Cytology Section and various Environmental Health Division sections are contributing to a unique collaborative research study with researchers at the UW School of Veterinary Medicine and School of Medicine and Public Health. The study will examine humans and dogs in the same households to improve understanding of important exposure pathways and potential mechanisms underlying bladder cancer risk associated with common household environmental exposures.</p> <p>The study is funded by a \$50,000 pilot award from the UW Institute for Clinical and Translational Research. The Primary Investigator for the study is Lauren Trepanier, School of Veterinary Medicine. Additional collaborators are WSLH Medical Director and Disease Prevention Division Director Dan Kurtycz and WSLH Director Jamie Schauer as well as Kristen Malecki, SMPH Department of Population Health Sciences and co-director of the Survey of the Health of Wisconsin (SHOW).</p>	Ongoing
September 5, 2018	CDC LRN National Meeting	WI Clinical Laboratory Network Coordinator and Co-Biosafety Officer Erin Bowles was one of four presenters at a plenary session discussing “ <i>Clinical Laboratory and Public Health Partner Engagement</i> ” at the CDC’s Laboratory Response Network National Meeting in Atlanta, GA.	Complete
September 7, 2018	CDC LRN awards for Chemical Emergency Response Team	<p>The WSLH Chemical Emergency Response Team was honored with two awards from the CDC’s national Laboratory Response Network (LRN) for their work.</p> <p>The WSLH team received the LRN Award for Excellence in Methodology and Technology Evaluation for their rapid response to the ongoing brodifacoum (anticoagulant rat poison) exposures from synthetic cannabinoid use. The team developed and implemented a quantitative test method for brodifacoum in blood – the first such method developed in the U.S. In addition, the</p>	Complete

		award cited the WSLH team's work with a biomarker for chlorine exposure and development of reference materials for blood metals and Lewisite metabolite. The second honor was for CDC COOP Support of the Nitrogen Mustards Metabolite Method. This award acknowledged both testing the WSLH team performed on behalf of CDC when their own capabilities were limited, as well as the team's efforts to characterize reference materials required by the LRN to perform the nitrogen mustards panel.	
September 14, 2018	ABFT inspection	The Forensic Toxicology Section passed its American Board of Forensic Toxicology (ABFT) re-accreditation inspection the week of September 10 th .	Complete
September 14, 2018	New UW SMPH course accepted	Communicable Disease Division (CDD) Assistant Director Alana Sterkel proposed a new course in the UW School of Medicine and Public Health curriculum entitled " <i>Diagnostic Microbiology in Public Health</i> ". It was accepted through the department of Medical Microbiology and Immunology. CDD will accept students for 2 weeks of intensive training at the WSLH.	Ongoing
September 17, 2018	Annual Borkenstein Drug Course	Forensic Toxicology Section Director Amy Miles travelled to Philadelphia to present at the annual forensic toxicology Drugs and Human Performance Course. There were approximately 150 forensic toxicologists and law enforcement from all over the world in attendance.	Complete
September 18, 2018	National Highway Traffic Safety Administration (NHTSA) Driving Under the Influence of Drugs (DUID) Toxicology & Data Collection Expert Working Group (WG)	Forensic Toxicology Section Director Amy Miles travelled to Washington DC to attend the first NHTSA Data WG meeting. The objectives of this group are to streamline data processes for DUID labs in the US and create a demonstration project to test the outcomes from the group. The WG will meet monthly over the next several months to devise a plan for the project and place guidelines for DUID labs on the Federal Register.	Ongoing
September 18, 2018	Wisconsin Clinical Laboratory Network Webinar	CDD Assistant Director Alana Sterkel and CDC Mycotics expert Snigdha Vallabhaneni presented a webinar for 19 WI clinical laboratories. The webinar " <i>Candida auris Emergence and</i>	Complete

		<i>Surveillance</i> ” discussed how <i>Candida auris</i> is an emerging, multidrug resistant public health threat, and the new testing now available at the WSLH to combat the problem. The archived presentation is available on the WSLH website.	
September 25, 26, and 28, 2018	Wisconsin Clinical Laboratory Network 2018 Regional Meetings	A team of 5 WSLH Communicable Disease Division (CDD) staff and 1 epidemiologist from the Wisconsin Division of Public Health traveled to Kimberly and Rice Lake, before returning to Madison to host 3 WCLN Regional Meetings for a total of 120 laboratorians, infection preventionists and local public health officers. Topics ranged from a review of the history and purpose of the WCLN, to updates to the state statutes regarding reportable conditions, to antibiotic resistance surveillance. Discussions of biosafety risk assessment and the current status of emergency preparedness and response in the laboratory engaged the audience and rounded out the day.	Complete
September 25, 2018	WSLH 25 year Club Breakfast	On Sept. 25th, 41 WSLH staffers with more than 1,100 collective years of service were honored as members of the 25 Year Club. WSLH Director Jamie Schauer hosted a celebratory breakfast at the University Club for the group. WSLH years of service in the room ranged from 25 all the way up to 36.	Complete
October 2018	Society of Forensic Toxicologists annual conference	Several staffers from the WSLH Forensic Toxicology Section presented at the annual Society of Forensic Toxicologists (SOFT) conference, held in early October in Minneapolis. Advanced Chemist Lori Edwards gave a presentation titled “Driving Under the Influence of Tier I Drugs: Casework”, which focused on the following drugs: tramadol, fentanyl and buprenorphine. In the same workshop, Advanced Chemist Kristin Drewieck presented “Buprenorphine: The Burr in my Backside” in which she covered the successes and challenges the WSLH faced when implementing and characterizing a buprenorphine quality control. Section Manager Bill Johnson and Section Director Amy Miles each presented during a workshop titled “Can We Say That? – Drug Impaired Driving Testimony”. Bill covered specific case histories involving stimulant drugs	Complete

		<p>and Ambien (zolpidem) while Amy presented about the importance of incorporating Drug Recognition Expert (DRE) narratives into daily testing, trial preparation and courtroom testimony.</p> <p>Amy also Chaired and presented in another workshop - “Weaving Together the Toxicologist and the DRE” in which she presented on new and emergent drug trends and how they relate to various state statutes and case interpretations.</p> <p>Feedback from all of the presentations has been extremely positive. In fact, the presenters in the testimony workshop have been asked to give an encore performance at a conference in April in North Carolina.</p>	
October 2, 2018	U.S. Department of the Army’s Commander’s Award for Public Service	<p>WSLH Chemical Emergency Response Assistant Coordinator Meshel Lange was awarded the U.S. Department of the Army’s Commander’s Award for Public Service by the Wisconsin National Guard 54th Civil Support Team (CST).</p> <p>The 54th CST is a critical response asset for emergencies or terrorist events that involve weapons of mass destruction (WMD) or toxic industrial chemicals. Meshel is the WSLH’s main contact for Wisconsin’s HazMat teams and the CST and has been working with the teams for six years. She is only the 11th person to receive this award from the 54th CST. She was also given the distinguished title of 54th CST’s 23rd team member.</p> <p>Her award recognized the vital role she plays as a resource to help identify unknown WMD threats, trainer to optimize protocols for the 54th CST as well as other response partners nationwide, and communication link between the Laboratory Response Network (LRN), CST, HazMat teams, and the WSLH – leading to increased proficiency in the emergency response mission and agency interoperability.</p>	Complete
October 3, 2018	Association of Public Health Laboratories (APHL) Webinar	<p>CDD WI Clinical Laboratory Network Coordinator and Co-Biosafety Officer Erin Bowles was one of four presenters for the APHL webinar “<i>Public Private Partnerships to Enhance Laboratory Preparedness and Response</i>”. Erin discussed the tools and methods we use to engage</p>	Complete

		the WI clinical laboratories to partner with us on emergency preparedness and response, and biosafety initiatives.	
October 5, 2018	Drug Recognition Expert (DRE) Technical Advisory Panel (TAP) annual meeting	Forensic Toxicology Section Director Amy Miles travelled to Orlando, FL to attend the annual TAP meeting.	Ongoing
October 8, 2018	Wisconsin Clinical Laboratory Network Webinar	CDD Director Pete Shult and CDD Virology and Surveillance Team Lead Erik Reisdorf presented a webinar “ <i>Influenza and Other Respiratory Viruses Update – 2018</i> ” for 38 WI clinical laboratories. The webinar provided a review of the 2017-2018 respiratory virus season and highlighted surveillance strategies for the upcoming 2018-2019 season. Influenza variant viruses, rapid molecular influenza assays, updates on the influenza vaccine strain components and new FDA regulations impacting diagnostic testing were also covered. The archived presentation is available on the WSLH website.	Complete
October 10, 2018	Wisconsin Mycobacteriology Laboratory Network (WMLN) annual meeting	Mycobacteriology team lead Laura Louison organized the annual WMLN meeting. The meeting was attended by 43 laboratorians, doctors, and administrators. Along with strengthening the network, attendees learned about case studies, heard from physicians how they use lab information, and learned about common pitfalls in the laboratory.	Complete
October 12, 2018	Wisconsin Science Festival	Cytotechnology Program Manager Changhong Ye and students Jonathon Fahey, Peter Tha and Marissa Nellen taught hundreds of kids (and some adults too) how to build a “cell” with craft supplies at the Wisconsin Science Festival at UW-Madison’s Discovery Building.	Complete
October 12, 2018	DRE Recertification	Forensic Toxicology Section Chemist Kimberle Glowacki provided training to WI DREs for their annual recertification. The training topics included current drug trends in WI and WSLH updates.	Complete
October 18, 2018	Wisconsin STD Summit	CDD Assistant Director Alana Sterkel presented at the annual Wisconsin STD Summit in Green Lake, WI. Her talk “ <i>The Forgotten STDs: Trich, M. gen, and Non-Gonococcal Urethritis</i> ” was	Complete

		attended by 30+ nurses, laboratorians and administrators from across Wisconsin.	
October 18-19, 2018	Annual OWI Seminar	Forensic Toxicology Section Director Amy Miles, Supervisor Bill Johnson and Alcohol Program Coordinator Tom Neuser presented at the annual Prosecutor OWI Seminar in Elkhart Lake, WI.	Complete
October 24, 2018	Ebola Exercise	CDD participated with hospitals across two states, emergency personnel, WI Division of Public Health, and the CDC to practice the response to an Ebola patient. This activity helped to strengthen existing relationships and identified ways to improve the system.	Complete
October 25, 2018	NHTSA Region 5 Ideas to Impact meeting	Forensic Toxicology Section Director Amy Miles travelled to Palatine, IL to present at the NHTSA Region 5 meeting. The topic covered the Dane County Oral Fluid Project and the Lab Cancellation Project. Chemists Aaron Zane and Michelle Klarner were also in attendance.	Complete
October 30, 2018	Presentation to Wisconsin South Central Association for Clinical Microbiology	Communicable Disease Division Assistant Director Allen Bateman gave an invited talk to the members of the Wisconsin South Central Association for Clinical Microbiology. The talk was entitled "Clinical and Public Health Microbiology of Carbapenem-resistant Enterobacteriaceae," and Allen discussed the national Antibiotic Resistance Laboratory Network (ARLN) of which the WSLH is a member and regional reference lab.	Complete
October 30, 2018	WSLH Employee Awards Program	<p>The inaugural WSLH Awards were presented on Oct. 30th. The WSLH Awards are a formal program for WSLH staffers to recognize their peers for excellence both within and outside the WSLH. An additional goal for the program is to increase awareness across the lab of section/division and individual accomplishments and show joint appreciation for these efforts.</p> <p>The WSLH Engagement Committee established awards categories/criteria/process and a volunteer Awards subcommittee comprised of staff and supervisors reviewed all submissions and made award decisions.</p> <p>A celebration with cake was held at both Henry</p>	

		<p>Mall and AG Drive locations with WSLH Director Jamie Schauer presenting the awards and nominee certificates.</p> <p>There were 27 nominees for 5 awards. The winners were:</p> <p>Service to the Community Award - Michelle Berry (Newborn Screening)</p> <p>Collaboration Award - Kimberly Anderson (Cytogenetics), Michelle Berry and Patrice Held (Newborn Screening)</p> <p>Excellence in a Research Publication – Martin Shafer (Environmental Health Division)</p> <p>Education and Outreach Award - Diane Kalscheur and Lori Edwards (Forensic Toxicology)</p> <p>Staff Distinguished Service Award – Lisa Berkan (Newborn Screening)</p>	
October 31, 2018	WI State Patrol ChemTest meeting	Forensic Toxicology Section Director Amy Miles provided training on retrograde extrapolation and courtroom testimony to the ChemTest Section at the WI State Patrol.	Complete
November 1, 2018	Alpha Phi Sigma talk about Forensic Toxicology	Forensic Toxicology Section Chemists Kayla Neuman and Ted Savage gave an invited talk to the members of Alpha Phi Sigma, a criminal justice honor society at the University of Wisconsin-Platteville. Ted and Kayla gave an overview of the WSLH and the forensic toxicology section.	Complete
November 2, 2018	Economic benefits of OSHA Onsite Consultation Programs	<p>The Occupational Safety and Health Administration (OSHA) published a working paper showing that the agency’s On-Site Consultation Program generates national economic benefits of approximately \$1.3 billion per year.</p> <p>The OSHA On-Site Consultation Program offers no-cost and confidential occupational safety and health services to small and medium-sized businesses in all 50 states, the District of Columbia, and several U.S. territories with priority given to high-hazard worksites.</p> <p>In Wisconsin, the WisCon Onsite Safety and</p>	Complete

		Health Consultation Program is part of the WSLH's Occupational Safety and Health Division.	
November 5-9, 2018	NADP Fall Meeting and Scientific Symposium	<p>The National Atmospheric Deposition Program (NADP) celebrated its 40th anniversary in Albany, NY, at the 2018 Fall Meeting and Scientific Symposium. NADP's Program Office and Central Analytical Laboratory are located at the WSLH.</p> <p>The NADP Executive Committee voted to move the HAL (mercury) laboratory to the WSLH in 2019. The move from Eurofins Frontier Global Sciences in Seattle, WA, to the WSLH will be complete by Sept. 1, 2019.</p>	<p>Meeting – Complete</p> <p>HAL move - ongoing</p>
November 7, 2018	STD Alliance Team Meeting	CDD Assistant Directors Allen Bateman and Alana Sterkel presented STD laboratory testing updates at the annual in-person meeting of the STD Alliance Team. This group of nurses, doctors, laboratorians, epidemiologists, and administrators work with the WSLH to provide the best testing possible for WI patients.	Complete
November 9, 2018	NHTSA Criminal Justice (CJ) Capacity Expert Working Group	Forensic Toxicology Section Director Amy Miles attended the first meeting of this WG. The objectives of the group are: assist states in strengthening their CJ system to address DUID, develop a self-evaluation tool for states to perform system diagnosis and guidance to enhance their DUID program and design one or more demo projects to test the effectiveness of the evaluation tool.	Ongoing
November 12, 2018	American Society of Cytopathology "Shark Tank" competition	Cytotechnology Certificate Program Director Kaitlin Sundling won the American Society of Cytopathology Foundation's "Shark Tank" open research competition. From a large field of applicants, proposals from 12 semifinalists were evaluated and 3 young researchers were chosen to present in front of the society at its annual meeting. Kaitlin was awarded \$50,000 to be used toward her research creating a machine learning prescreening algorithm for cytology.	Complete
November 12-16, 2018	ANAB training	Forensic Toxicology Section Director Amy Miles travelled to Cary, NC to attend the ANAB ISO training course and became a certified Technical Assessor.	Complete

November 15-17, 2018	2018 National Symposium for Newborn Screening, Shanghai, China	<p>Newborn Screening Co-Director Mei Baker was an invited speaker at the Shanghai Institute for Pediatric Research's 2018 National Symposium for Newborn Screening. Mei spoke on "NBS in the Molecular Era: SMA/SCID Update".</p> <p>The Shanghai Institute for Pediatric Research began newborn screening research in 1981.</p>	Complete
November 20 and 27, 2018	WSLH Brown Bag: Bleeding Disorders Associated with the use of Synthetic Marijuana in WI	<p>WSLH Chemical Response Coordinator Noel Stanton gave a Brown Bag presentation about the discovery of rat poison in synthetic marijuana like K2 and Spice, the characteristics of this chemical exposure, and the unique role the WSLH is playing in the response.</p> <p>Earlier this year, patients began arriving in Chicago emergency rooms with unexplained bleeding. A link was made to the use of synthetic marijuana products, and the discovery of brodifacoum - a powerful anticoagulant - was found to be the cause. This outbreak soon spread to Wisconsin and other states. In response to this outbreak, WSLH chemists developed a test to quantify brodifacoum in patients and added new information for diagnosis and patient management.</p> <p>The Brown Bag is archived on the WSLH website.</p>	Complete
November 27, 2018	HRSA Expert Advisory Panel for Newborn Screening	<p>Newborn Screening Co-Director Mei Baker has been invited to serve on the Expert Advisory Panel for the Health Resources and Services Administration (HRSA) Advisory Committee on Heritable Disorders in Newborns and Children (ACHDNC). Members of the Expert Advisory Panel will meet in February 2019 to provide guidance regarding the approach used by the ACHDNC to evaluate and make recommendations regarding conditions under consideration for newborn screening. This effort will include reviewing the Committee's processes for a) nominating a condition, b) reviewing the evidence, and c) making a recommendation to the Secretary of Health and Human Services regarding whether the condition should be added to the Recommended Uniform Screening Panel.</p>	Ongoing

November 27 and 29, 2018	Madison College tours	Four sections of Madison College's Introduction to Environmental Sciences class toured the WSLH Environmental Health and Occupational Safety and Health Divisions. The instructors bring their students to the WSLH every semester because the tours help the students visualize the real-world applications of the concepts they learn in the classroom.	Complete
November 28, 2018	WI DOT Traffic Records Coordinating Committee (TRCC)	Forensic Toxicology Section Director Amy Miles became a member of the WI TRCC to address data gaps in the DUID process.	Ongoing
December 5, 2018	Wisconsin Clinical Laboratory Network Webinar	CDD WI Clinical Laboratory Network Coordinator and Co-Biosafety Officer Erin Bowles, Proficiency Testing Program Coordinator Amanda Weiss, and ACL Laboratories Microbiology Technical Director Eric Beck presented a WCLN webinar " <i>Using Exercises to Help Prevent Bioterrorism Agent Exposures</i> ". The webinar highlighted the fact that bioterrorism agents have been isolated in WI and provided tips for using proficiency exercises to help prepare clinical laboratorians to recognize and safely perform rule-out testing on a suspect bioterrorism agent. The archived presentation is available on the WSLH website.	Complete

**Report to the
Wisconsin State Laboratory of Hygiene Board
Water Systems Tests by the WSLH
September 1, 2018 – November 30, 2018**

COUNTY_NAME	PWS_TYPE	NUMBER_OF_SYSTEMS	NUMBER_OF_UNSAFE	NUMBER_OF_BWO
Calumet	TN	7	1	1
Racine	TN	45	3	4
Waukesha	NN	16	1	2