

**CENTERS FOR DISEASE CONTROL AND PREVENTION
LEAD EXPOSURE AND PREVENTION ADVISORY COMMITTEE**

(LEPAC)

MEETING HELD VIA ZOOM WEB VIDEO CONFERENCING

MAY 12, 2022 9:00 A.M.

PRESIDING OFFICER: PAUL ALLWOOD, Ph.D., M.P.H.,
DESIGNATED FEDERAL OFFICIAL, NCEH/ATSDR

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TABLE OF CONTENTS

WELCOME AND ANNOUNCEMENTS	7
INTRODUCTIONS	10
UPDATE ON BLRV POST-IMPLEMENTATION PLANNING	22
UPDATES ON THE FLINT LEAD REGISTRY	30
INFORMATION ABOUT LEAD EXPOSURE IN CLARKSBURG, WV	59
CURRENT INFRASTRUCTURE INITIATIVES RELATED TO LEAD	85
PUBLIC COMMENTS	116
UPDATES FROM LEPAC MEMBERS ON LEAD-RELATED ACTIVITIES	126
LEAD IN AIR, SOIL, AND BLOOD	162
NAVIGATING MULTIPLE FUNDING STREAMS AT THE LOCAL LEVEL	179
FACILITATED DISCUSSION ON POLICY APPROACHES TO IMPROVE CHILDHOOD BLOOD LEAD TESTING RATES	215
FACILITATED WORKGROUP DISCUSSION	226
WRAP UP AND DISCUSS TOPICS FOR NEXT MEETING	241

PARTICIPANTS

In alphabetical order

PAUL ALLWOOD, Ph.D., MPH, RS, LEPAC Designated Federal Official, Branch Chief, Lead Poisoning Prevention and Surveillance Branch (proposed), NCEH/ATSDR.

MATTHEW AMMON, M.S., LEPAC Chair, Director, Office of Lead Hazard Control and Healthy Homes, U.S. Department of Housing and Urban Development.

PATRICK N. BREYSSE, Ph.D., CIH, Director, National Center for Environmental Health/Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention.

JEANNE BRISKIN, M.S., Director, Office of Children's Health Protection, U.S. Environmental Protection Agency.

TAMMY BARNHILL-PROCTOR, M.S., Supervisory Education Program Specialist, Office of Innovation and Early Learning, Office of Elementary and Secondary Education, U.S. Department of Education.

WALLACE CHAMBERS, JR., P.H.D., M.A.S, M.H.A., Deputy Director, Environmental Public Health, Cuyahoga County Board of Health.

MICHAEL FOCAZIO, Ph.D., M.S., Program Coordinator, Environmental Health Mission area, U.S. Geological Survey.

SONYA FRICK, Manager, Lead Safe Home Unit, Michigan Department of Health and Human Services.

NATHAN GRABER, M.D., M.P.H., Pediatrician, St. Peter's Pediatrics, St. Peter's Health Partner Medical Associates.

MONA HANNA-ATTISHA, M.D., M.P.H., F.A.A.P., Director, Michigan State University-Hurley Children's Hospital Pediatric Public Health Initiative; C.S. Mott Endowed Professor of Public Health, Division of Public Health; and Associate Professor, Department of Pediatrics and Human Development, Michigan State University College of Human Medicine.

KRISTINA HATLELID, Ph.D., M.P.H., Toxicologist, U.S. Consumer Product Safety Commission.

CORI ICE, Health Education Coordinator, West Virginia Department of Health and Human Resources.

PAUL ICE, Environmental Resource Specialist, West Virginia Department of Health and Human Resources.

KARLA JOHNSON, M.P.H., Administrator, Healthy Homes Environmental Consumer Management and Senior Care Department, Marion County Public Health Department.

DONNA JOHNSON-BAILEY, M.P.H., R.D., Senior Nutrition Advisor, Office of Policy Support Food and Nutrition Service, U.S. Department of Agriculture.

NICOLE JONES, Ph.D., M.S., Director, Flint Registry, Michigan State University-Hurley Children's Hospital Pediatric Public Health Initiative, and Assistant Professor, Department of Pediatrics and Human Development, Division of Public Health, Michigan State University College of Human Medicine.

MICHAEL KOSNETT, M.D., M.P.H., Associate Adjunct Professor, Colorado School of Public Health.

JAMIE MACK, M.A., Environmental Health Director, Delaware Division of Public Health, liaison to Association

of State and Territorial Health Officials (ASTHO).

JENNIFER MCLAIN, Ph.D., Director, Office of Ground Water and Drinking Water, EPA.

HOWARD MIELKE, Ph.D., M.S., Professor, Department of Pharmacology, Tulane University School of Medicine.

ANSHU MOHLLAJEE, Sc.D., M.P.H., Research Scientist Supervisor I, Childhood Lead Poisoning Prevention Branch, California Department of Public Health.

TOM NELTNER, Chemical Policies Director, Environmental Defense Fund.

RUTH ANN NORTON, President and CEO, Green & Health Homes Initiative (GHHI), liaison to Green & Healthy Homes Initiative (GHHI).

NATHAN PARK, Associate Legislative Representative, Earthjustice.

PATRICK PARSONS, Ph.D., Director, Division of Environmental Health Sciences, Chief, Laboratory of Inorganic and Nuclear Chemistry, New York State Department of Health, liaison to Association of Public Health Laboratories (APHL).

PERRI RUCKART, Dr.P.H., M.P.H., Team Lead/Health Scientist, Program Development, Communications and Evaluation Team, Lead Poisoning Prevention and Surveillance Branch (proposed), National Center for Environmental Health, Centers for Disease Control and Prevention.

JILL RYER-POWDER, Ph.D., M.N.S.P., Principal Health Scientist, Environmental Health Decisions.

RIO SCHONDELMEYER, M.P.A., M.S., Health Scientist (Policy), Lead Poisoning Prevention and Surveillance Branch

(proposed), NCEH/ATSDR, CDC.

CARIN SPEIDEL, Manager, Lead Services Section,
Michigan Department of Health and Human Services.

COURTNEY WISINSKI, M.P.H., Manager, Local Lead
Services Development Unit, Michigan Department of Health
and Human Services.

NICOLE WYSE, Associate Director, Community
Development, City of Detroit Housing and Revitalization
Department.

STEPHANIE YENDELL, D.V.M, M.P.H., Senior Epidemiology
Supervisor, Minnesota Department of Health (MDH), liaison
to Council for State and Territorial Epidemiologists
(CSTE).

LAUREN ZAJAC, M.D., M.P.H, F.A.A.P, Assistant
Professor, Icahn School of Medicine at Mount Sinai, liaison
to American Academy of Pediatrics (AAP).

Transcript Legend

(sic) - Exactly as said.

(ph.) - Exact spelling unknown; spelled as sounded.

-- Break in speech continuity.

... Indicates halting speech, unfinished sentence or omission of
word(s) when reading.

Quoted material is typed as spoken.

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P R O C E E D I N G S

WELCOME AND ANNOUNCEMENTS

DR. ALLWOOD: Good morning, everyone. My name is Paul Allwood, and it is my pleasure to welcome you to CDC's fifth Lead Exposure and Prevention Advisory Committee meeting, also known as LEPAC. I am the Branch Chief for the Lead Poisoning Prevention and Surveillance Branch, this is our proposed name, the branch is in the Division of Environmental Health, Science and Practice in the National Center for Environmental Health at CDC. I'm also Designated Federal Official for LEPAC. As DFO I help to manage the overall operations of LEPAC, with the help of several CDC colleagues. And I also work in very close collaboration with the LEPAC Chair to ensure that meetings run smoothly. We are glad that you're joining us virtually for this meeting, and I'm pleased that we have over 200 people that signed up to attend this meeting.

Please note that audience members will be muted during the meeting. We have a full schedule and we will stick to the agenda times as best as we can throughout the day. And the meeting will be recorded and a transcript -- and a transcript of the meeting, as well as a summary of the meeting, will be posted on our website. It is now my pleasure to introduce Dr. Pat Breysse, Director of the National Center of Environmental Health, for a few opening

1 remarks. Dr. Breysse.

2 **DR. BREYSSE:** Thank you, thank you, Paul, and good
3 morning everybody and -- excuse me for one second. I want
4 to thank you for joining us, as you heard, our fifth LEPAC
5 meeting. And I want to thank you for your continued
6 commitment to helping us work towards eliminating
7 childhood lead poisoning as a public health problem in the
8 U.S. and eventually the globe.

9 And we're pleased to announce it's been one year
10 since the LEPAC unanimously voted to update the blood lead
11 reference value from 5 micrograms per deciliter to 3.5.
12 It's been six months since CDC announced the update of the
13 blood lead reference value formally. I want to thank you
14 all again for your help and support in making that happen.
15 In conjunction with the CDC, the American Journal of
16 Public Health is publishing a supplemental issue on lead
17 exposure prevention. The volume will present lessons
18 learned in the field of implementation and work to provide
19 insight for policymakers, with the goal of advancing the
20 growing discipline of lead exposure science, evaluation
21 and applied research. Currently the AGPH -- AJPH lead
22 supplement editorial group is entering the initial stages
23 of selecting the content for publication and supplement.

24 Today we're going to introduce the new LEPAC
25 non-voting liaison members. We'll hear more about what

1 CDC has done to encourage the uses of the -- the update --
2 the -- the update of the blood lead reference value.
3 We'll get updates on the Flint Lead Registry and get
4 information on lead exposure work we're doing in -- in
5 conjunction with EPA and other agencies in Clarksburg,
6 West Virginia.

7 We'll also have discussions on infrastructure
8 initiatives related to lead, lead in soil, lead in air and
9 blood. We'll navigate in multiple funding streams at the
10 local level, policy approaches to improve childhood blood
11 lead testing rates, and get updates from LEPAC members on
12 their related activities.

13 I'm pleased to join you today and I'm excited about
14 the agenda we have for you today and I want to thank the
15 west coast members for joining us so early in your day. I
16 would hope it'll be a great day for everybody. And now
17 I'd like to turn the meeting over to our Chair, Matt
18 Ammon. Matt.

19 **MR. AMMON:** Thank you Dr. Breysse, and I echo Dr.
20 Breysse's sentiments about the, all the hard work that we
21 have done, and really the great progress that we have
22 made. And the fact that it's a great agenda today, you
23 know, it really shows that a very deep diverse set of
24 subjects with a wide -- wide range really related to our
25 work and, and I'm also excited that to -- to intro -- not

1 introduce, but to have the non-voting liaison members as
2 part of this meeting as well to bring, you know, an
3 important voice to -- to our work, and so we're excited to
4 have you.

5 My name is Matt Ammon, I am the Chair, but I also --
6 my regular job, I am the Director -- HUD's Director of the
7 Office of Lead Hazard Control and Healthy Homes. It has
8 been my pleasure to serve as the Chair and to be with all
9 of you and to listen to the -- what you are doing to
10 advance this work, and hearing from you about ways that we
11 can take that internally with our own agencies and our own
12 work, and more importantly, how we can collaborate
13 together and continue to collaborate. We've all been
14 great partners in focusing on this work for several
15 decades and it's great that we still continue with this
16 work, learning from each other and learning from the
17 advancements to help improve and offer additional
18 protections to the families and the children and the
19 residents that -- that we all focus on, and that we all
20 serve.

21 So with that, I'll turn it back over to Perri to
22 introduce the LEPAC members.

23 **INTRODUCTIONS**

24 **DR. RUCKART:** Good morning, everybody. I'm Perri
25 Ruckart. I am the Deputy DFO, and I'm also the team lead

1 for program development communications and evaluation in
2 the lead branch here at CDC and it's my pleasure to call
3 on each of the LEPAC members to introduce themselves.
4 I'll start with Tammy Barnhill-Proctor.

5 **MS. BARNHILL-PROCTOR:** Hi. Good morning, everyone.
6 My name is Tammy Barnhill-Proctor. I am with the
7 Department of Education and I am the group leader over the
8 early -- Office of Early Learning there at the department
9 in the Office of Elementary and Secondary Education. Glad
10 to be with you guys today.

11 **DR. RUCKART:** Thank you Tammy. Jeanne Briskin.

12 **MS. BRISKIN:** Hi, I'm Jeanne Briskin. I'm the
13 Director of Children's Health Protection at the U.S.
14 Environmental Protection Agency. Thanks for having me
15 join the group.

16 **DR. RUCKART:** Thanks, Jeanne. Wallace Chambers.

17 **MR. CHAMBERS:** Hello, everyone. I'm Wallace
18 Chambers. I'm with the Cuyahoga County Board of Health
19 and I am the Deputy Director of Environmental Public
20 Health. Thank you.

21 **DR. RUCKART:** Thanks, Wallace. Michael Focazio.

22 **DR. FOCAZIO:** Good morning. I'm Mike Focazio. I'm
23 with the U.S. Geological Survey, and I run our
24 environmental health research program.

25 **DR. RUCKART:** Thank you. Nathan Graber. Are you

1 able to introduce yourself? Nathan is joining us -- oh,
2 you are.

3 **DR. GRABER:** Hi. Good morning. Hi, I'm Nathan
4 Graber. I'm a pediatrician from upstate New York. I was
5 extensive in experiencing government overseeing programs
6 that address lead exposure in both children and adults.

7 **DR. RUCKART:** Thank you. Kristina Hatlelid.

8 **DR. HATLELID:** Good morning. I'm Kris Hatlelid. I'm
9 a toxicologist with the Consumer Product Safety
10 Commission.

11 **DR. RUCKART:** Thank you. Karla Johnson.

12 **MS. JOHNSON:** Good morning. I'm Karla Johnson with
13 the Marion County Public Health Department, Indianapolis,
14 Indiana, and I am the administrator of the lead programs
15 in that county.

16 **DR. RUCKART:** Thank you. Donna Johnson-Bailey.

17 **MS. JOHNSON-BAILEY:** Hello. I'm Donna
18 Johnson-Bailey, senior nutrition advisor for the Food and
19 Nutrition Service.

20 **DR. RUCKART:** Howard Mielke. Well, thank you, Donna.
21 Howard Mielke.

22 **DR. MIELKE:** Hello. Oh, there we go. I'm Howard
23 Mielke. I'm at Tulane University School of Medicine, and
24 I work on environmental signaling and have been doing
25 several decades of work on the impact that soil lead has

1 on the population.

2 **DR. RUCKART:** Thank you. Anshu Mohllajee.

3 **DR. MOHLLAJEE:** Hi. I'm Anshu Mohllajee. I'm from
4 the California Department of Public Health, Childhood Lead
5 Poisoning Prevention Branch, and I'm chief of the epi
6 unit. Happy to be here, thanks.

7 **DR. RUCKART:** Thank you. Jill Ryer-Powder.

8 **DR. RYER-POWDER:** Yes. Good morning. My name is
9 Jill Ryer-Powder. I'm the principle health scientist with
10 Environmental Health Decisions, doing human health risk
11 assessment and litigation support. I was actually the
12 Chairman of the Blood Lead Reference Value group so very
13 proud of all the work that the committee did, and I look
14 forward to being here today. Thank you.

15 **DR. RUCKART:** Thank you, Jill. We also have a few
16 members who are not able to attend: Erika Marquez from
17 the University of Nevada, Tiffany DeFoe from OSHA, and
18 Monique Fountain-Hannah from HRSA. And as Dr. Breysse
19 mentioned, this is our first meeting having non-voting
20 liaison members so I'm pleased to introduce Jamie Mack.

21 **MR. MACK:** Good morning. Yes, my name is Jamie Mack.
22 I am the State Environmental Health Director in Delaware,
23 and I am here as a representative of the Association of
24 State and Territorial Health Officials, State
25 Environmental Health Director.

1 **DR. RUCKART:** Okay. Thank you, and welcome. Ruth
2 Ann Norton.

3 **MS. NORTON:** Hey. Good morning, everybody. I'm Ruth
4 Ann Norton, President and CEO of the Green and Healthy
5 Homes Initiative. And yesterday I celebrated my 29th year
6 in this work and eradicating lead poisoning is at the
7 heart of our work that our organization -- I'm calling you
8 from Baltimore where we're headquartered -- and so honored
9 to be a part of this. Thank you.

10 **DR. RUCKART:** Thank you for joining us. Patrick
11 Parsons.

12 **DR. PARSONS:** Yes, good morning. My name is Patrick
13 Parsons. I'm the liaison member representing the
14 Association of Public Health Laboratories. My daytime
15 job, I'm Director of the Division of Environmental Health
16 Sciences at the New York State Department of Health
17 Wadsworth Center. So I'm an analytical chemist by
18 training and I had directed the lead poisoning lab as part
19 of my work for the last 36 years. I also hold an academic
20 appointment as a Professor in Environmental Chemistry at
21 the State University of New York, University at Albany.
22 Thanks.

23 **DR. RUCKART:** Thank you. Stephanie Yendell.

24 **DR. YENDELL:** Hi. I'm Stephanie Yendell. I
25 supervise the lead poisoning prevention program for the

1 Minnesota Department of Health, and I am the liaison
2 member representing the Council of State and Territorial
3 Epidemiologists, or CSTE.

4 **DR. RUCKART:** Thank you. Amanda Reddy, are you on?
5 Okay, we have another member, she was unable to join us
6 today; it's Amanda Reddy, and she's from the National
7 Center for Healthy Housing and hopefully she can join us
8 next time. So I want to welcome all of the members,
9 especially our new members. It's great to have you, and I
10 will turn the meeting back over to you, Paul.

11 **DR. ALLWOOD:** Thank you, Perri. And welcome
12 everyone, again, and you know as Perri said, we are
13 especially excited to have our non-voting, non-voting
14 liaison members. So at this time I'd like to share, you
15 know, a brief summary of the -- of our last meeting, which
16 happened in December of 2021. That was the, the fourth
17 meeting of the Lead Exposure and Prevention Advisory
18 Committee. It was held in December, December the 3rd,
19 2021, and there were about 175 people attending that
20 meeting.

21 For that meeting the topics included were updates
22 from Federal LEPAC members on lead-related activities that
23 they were -- that their agencies were engaged in. A
24 discussion about the 1988 CLIA amendment. There was an
25 update on the lowering of the blood lead reference value.

1 CDC, EPA and HUD present, you know, made -- gave
2 presentations on efforts that -- that each of these
3 agencies were undertaking to identify populations at
4 higher risk of lead exposure, our mapping efforts that
5 were -- were aimed at identifying populations at higher
6 risk of lead exposure.

7 There was also a presentation on local innovations
8 which was given by the Lead Safe Cleveland Organization.
9 There were updates from Federal LEPAC members on
10 environmental justice efforts that were focused on lead.
11 And there was a discussion on best practices for
12 increasing -- and increasing and enhancing screening --
13 our lead screening in underserved populations. Additional
14 details about the presentations and discussions can be
15 found on the CDC's LEPAC website.

16 Since we last met the LEPAC Charter was amended to
17 include non-voting liaison members who were just
18 introduced. These members are from organizations with
19 interest in lead poisoning prevention, including
20 organizations representing states and local health
21 department. These new members are, you know, welcome to
22 the -- to the LEPAC and as you've heard from all of them,
23 they bring a, you know, a breadth and a diversity of
24 backgrounds and experiences, and we are really excited to
25 have them become a part of LEPAC.

1 Today we will hear public comments from three members
2 of the public. They include Mr. Tom Neltner who is a
3 Director of Environmental -- at the Environmental Health,
4 Environmental Defense Fund. He's a Director at
5 Environmental Defense Fund. We'll also hear from
6 Mr. Nathan Park who is a legislative assistant at Earth
7 Justice. And we'll hear from Dr. Michael Kosnett who is
8 an associate adjunct professor at Colorado School of
9 Public Health. I'm going to share a few updates on CDC
10 activities, you know, over the past several months. The
11 CDC CLPPP recipients provided success stories, you know,
12 to the CDC; we worked in close collaboration with them in
13 developing these stories and now I'm pleased to announce
14 that the -- those success stories are posted on CDC's Lead
15 Poisoning Prevention website.

16 We are very grateful for the partnerships and the
17 stories that reflect the hard work and dedication that our
18 state and local partners bring to lead poisoning
19 prevention, and I want to thank you on behalf of CDC for
20 all of your efforts. We are continuing to support the
21 Flint Lead Exposure Registry, and you will be hearing more
22 about the -- the excellent work of the -- of the Flint
23 Registry later on today.

24 The lead branch is also supporting community blood
25 lead testing and lead reduction and mitigation efforts in

1 Clarksburg, West Virginia. And this is a community with,
2 you know, elevated lead exposures and -- and that we have
3 some representatives of Clarksburg that will be joining us
4 today and they'll be sharing more about what they're doing
5 in their community to help to deal with this problem.

6 The lead branch recently provided support to the
7 United States Virgin Islands on a lead exposure situation
8 involving a small child. The branch provided resources
9 and materials and also recommended specific -- specific
10 actions based on blood lead screening guidelines that we
11 have published. Additionally, we will provide comments to
12 the U.S. Virgin Islands on their standard operating
13 procedures that they're -- they are developing for lead
14 investigations. The lead branch also recently provided
15 support to recipients -- we provided information on
16 materials to recipients on the use of certain cosmetics
17 among resettled Afghans. There's a product known as kajal
18 or surma, I think there are other names for that product,
19 as well. But it's primarily -- primarily used as kind of
20 an eyeliner, it's used on small children and it's known to
21 be potentially contaminated with lead. We provided some
22 informational materials and we also worked closely with
23 colleagues in Wisconsin on, you know, specific concerns
24 that they had regarding this product in that -- that area.

25 Now moving on to some of the partnerships and

1 collaborations that we have been engaged in in the past
2 few months. We've had the opportunity to present to a
3 number of partners and their -- our primary goal is -- is
4 to raise awareness about the importance of blood lead
5 testing in children because this is, you know, related to
6 and -- and somewhat precipitated by concerns about
7 decreasing rates of screening, you know, first as a result
8 of the pandemic and then, more recently, as a result of --
9 of the recalls that led to shortages of test kits for the
10 LeadCare point, point of care instruments.

11 Some of the partners that we presented to include the
12 EPA's Office of Water, the Poison Control Center and
13 Public Health Collaborations Community of Practice, the
14 American College of Medical Toxicologists, the Council of
15 State and Territorial Epidemiologists. And we are
16 planning -- we're currently planning to present at the
17 National Environmental Health Association's annual
18 educational conference this summer. And in the fall we
19 are planning to present at the American Public Health
20 Association's annual conference.

21 So to wrap up this portion of the meeting, I would
22 like to announce that we are sun-setting the blood lead
23 reference value work group, and I -- and I take this
24 opportunity to thank all the members for their excellent
25 service on that work group. With that, I will turn the

1 meeting back over to Chairman Ammon.

2 **MR. AMMON:** Thank you, Paul. That was a great
3 overview, you know, it's great to hear that, you know,
4 obviously, us continuing the work to -- to focus on lead
5 with both our historical programs that we have and
6 expanding those and dealing with real world today
7 problems, whether it's, you know, the lessening of
8 screening or merging issues that we're seeing related to
9 lead exposure in different areas related to water and
10 other things going on. But -- but the core to that and --
11 and you ended it properly by talking about the
12 collaborations that are really necessary, you know, both
13 at the federal, state and local nonprofit community-based,
14 philanthropic -- all of those are really important to make
15 sure that we are all in -- in alignment with being able to
16 address problems because, you know, I've said this many
17 times that although we are working in different
18 disciplines, we all have the exact same outcomes that
19 we're working on.

20 So -- so hearing all that come together on a regular
21 basis, both at CDC and I'll echo that at HUD, it really
22 epitomizes not only the value of the work, but that our
23 work matters, it really does matter. All of us make an
24 impact every day in what we do and -- and working with our
25 local partners, wherever they may be, in making a

1 difference in people's lives around the country. And
2 again, it's great that -- that we focus on new issues that
3 can come up, as well as dealing with issues that we've,
4 we've been facing for quite some time.

5 And you also mentioned, gave a summary of the
6 December meeting, which is -- which is important because
7 as a matter of -- of order, we need to vote on the annual
8 report. So the annual report was sent to all LEPAC
9 members on April 21st. And I just want to give a brief
10 moment, if there are any questions or comments to that
11 report. Again, Paul gave an overview of -- of what
12 happened during the December 2021 meeting and, again, a
13 brief time if there's any LEPAC members have any questions
14 or comments relating to that annual report.

15 Okay. Hearing none, it may be easier to say was
16 there -- is there any LEPAC member that would not vote to
17 approve the annual report; it'd be too hard to see hands,
18 I think, if we held up. So hearing none then, for the
19 record, a unanimous consent to approve the annual report
20 for the record.

21 All right, thank you all very much, and really
22 getting into the beginning of our -- our program for --
23 for today and with our presentations and, again, you know,
24 looking at the agenda today, it's a really rich agenda
25 focused on, again, what I mentioned about current issues

1 and systemic and -- and hearing from multiple parties
2 about not only their work, but also what things that we
3 need to hear about to improve, collectively, in terms of
4 our work. You know, as we -- as we tackle these -- these
5 issues that, you know, seem to get more complex, but I
6 think the more we talk about the issues, the more we can
7 ready ourself to address the issues.

8 So -- so with that I'm going to turn it over to Rio
9 for our first presentation, which is an update on blood
10 lead reference value post-implementation planning. Rio.

11 **UPDATE ON BLRV POST IMPLEMENTATION PLANNING**

12 **MS. SCHONDELMEYER:** Good morning, everyone. My name
13 is Rio Schondelmeyer, and I am a health scientist at the
14 CDC Childhood Lead Poisoning Prevention Program. Today
15 I'm going to talk about CDC's blood lead reference value
16 post-implementation plan. Next slide. I'm sorry, next
17 slide, please.

18 During the May 2021 LEPAC meeting, the committee
19 voted to recommend that CDC update its blood lead
20 reference value or BLRV from 5 micrograms per deciliter to
21 3.5 micrograms per deciliter. The BLRV is a statistically
22 derived population-based value used to identify children
23 in the upper end of the blood lead distribution in the
24 United States. The BLRV is based on the 97 and a half
25 percentile of the blood lead distribution in U.S. children

1 ages one to five years, from the National Health and
2 Nutrition Examination Survey or NHANES data.

3 The initial BLRV of 5 micrograms per deciliter was
4 based on NHANES data from the 20 -- 2007 to 2010 cycles.
5 In 2021, the reference value was updated to 3.5 micrograms
6 per deciliter based on NHANES data from 2015 to 2018.
7 Please note the BLRV is not a health-based standard or a
8 toxicity threshold. The HHS Secretary and CDC were
9 supportive of LEPAC's recommendation and on October 28th,
10 2021 the BLRV update was announced to the public during
11 National Lead Poisoning Prevention Week.

12 So why did they promote this update. CDC developed
13 and disseminated a press release, a Morbidity and
14 Mortality Weekly Report, or MMWR, policy note, social
15 media messages and communication briefs for state and
16 local public health agencies, healthcare providers and
17 state public health and local laboratories. Overall, the
18 announcement of the BLRV was well received by partner
19 federal agencies and external partners. And the
20 implementation of the updated BLRV has been a success so
21 far. However, there is still a lot of work to do to
22 protect children who are at a higher risk of exposure to
23 lead and to advance health equity. Next slide, please.

24 The goal of CDC's BLRV post-implementation plan is to
25 evaluate progress towards using the lower BLRV and

1 associated impacts. Specific objectives of CDC's plan
2 include evaluating success of implementation tactics using
3 predetermined metrics, tracking the usage of the lower
4 BLRV by state and local jurisdictions, assessing its
5 laboratories by reporting blood lead levels categorically
6 as less than 5 micrograms per deciliter or reporting
7 actual test results under 5 micrograms per deciliter,
8 including one place of decimal and identifying challenges
9 and successes associated with implementing the lower BLRV.
10 Next slide, please.

11 The plan includes four major approaches. This year
12 nine CDC-funded CLPPPs will participate in surveys to help
13 our branch gain feedback on the announcement of the
14 updated BLRV and usage of the updated BLRV across the
15 nation. In March 2022, participating programs were asked
16 to provide feedback on the CDC's communication campaign
17 about the updated BLRV. In October of 2022, participating
18 programs will be asked to provide information about policy
19 changes and usage of the BLRV. CDC may use this
20 information to develop additional outreach materials to
21 promote the updated BLRV and educate and inform audiences
22 about its use and purpose. Next slide, please.

23 Our team will also review the required surveillance
24 data submissions from CDC-funded state and local public
25 health agencies to help identify if the updated BLRV has

1 been implemented. This review will include assessing if
2 laboratories are reporting and recipients are entering and
3 submitting data on blood lead levels between 3.5 and
4 5 micrograms per deciliter and if children with blood
5 levels between 3.5 and 5 micrograms per deciliter are
6 receiving appropriate confirmatory testing and follow-up
7 services. Next slide, please.

8 Every year our branch distributes the Awardee Lead
9 Profile Assessment or ALPA to our CDC-funded CLPPPs. The
10 purpose of this assessment is to identify one,
11 jurisdictional legal framework governing CDC-funded CLPPPs
12 in the United States and two, strategies for implementing
13 how-to blood poisoning prevention activities in the United
14 States. We anticipate distributing the survey in June.
15 Once the results are in our team will review the blood
16 lead levels at which CDC-funded state and local health
17 departments initiate various public health actions to
18 identify the number of lead programs that have implemented
19 the updated BLRV. This analysis will be conducted over
20 five years to monitor jurisdictional policy changes. This
21 analysis will inform guidance, resource development and
22 technical assistance activities conducted by the CDC's
23 Childhood Lead Poisoning Prevention Program. Next slide,
24 please.

25 The fourth approach is a proficiency test of

1 laboratories across the nation, the updated BLRV causes --
2 or, I'm sorry, creates challenges, as well as
3 opportunities for state, local and private laboratories
4 that perform blood lead level testing. Some laboratories
5 might need to reduce the reporting limit policies, adopt
6 new repeat testing practices, improve limits of detection
7 of laboratory developed tests, acquire new instrumentation
8 and validate updated our new laboratory developed tests.
9 In collaboration with the NCEH Division of Laboratory
10 Services or DLS and some of the larger PT programs across
11 the nation, we are hoping to distribute a proficiency test
12 to detect a blood lead level between 3.5 micrograms per
13 deciliter and 5 micrograms per deciliter sometime this
14 year. After results of the proficiency tests are in, CDC
15 will examine a number of laboratories that reported a
16 value within the few criteria and the number of labs who
17 determined the sample was merely below 5 micrograms per
18 deciliter. Next slide, please.

19 Three of the four approaches outlined in this plan
20 rely heavily on information provided by our funded
21 partners, so we appreciate all of their support in our
22 efforts. Additionally, as you heard Paul say earlier this
23 morning, our branch has been collaborating with various
24 partners to continue spreading awareness about the BLRV.
25 I want to thank you for joining the LEPAC meeting today

1 and listening to my presentation.

2 **MR. AMMON:** Thank you, Rio. We have just a couple
3 minutes if there are any questions from members here, and
4 non-, of course, non-voting liaison members. Just give a
5 minute so everybody -- do we have any questions or
6 comments?

7 **MS. NORTON:** Matt, this is Ruth Ann Norton. Good
8 morning, good to see you. I am, you know, deeply
9 concerned about these testing rates. I chair the Maryland
10 Lead Poisoning Prevention Commission, and we have an
11 excellent staff at MDE who is really focused on getting
12 these rates back up and forward. I know NBC just put out
13 an article on this. And I may have missed this, Rio, I
14 apologize if I did, but is there a sort of a collective
15 campaign that we are looking at in our agency campaign or
16 national campaign to focus deeply on getting people to get
17 their kids back to the doctor, first of all, for lots of
18 important things. And something that will be like a
19 toolkit for states, nonprofits and others to use as we
20 think about the coming school year where in Maryland we
21 require lead testing before kids enter pre-K, kindergarten
22 and first grade. So if I missed that I apologize, but I
23 didn't know if there was really a thought in previous
24 meetings about how we're going to have to double down and
25 actually be better than probably we ever have in this.

1 **DR. ALLWOOD:** Right. And I -- I can speak to, you
2 know, get us started on that response and Rio, feel free
3 to add something. So this is Paul Allwood and I'm the
4 Branch Chief for Lead Poisoning Prevention and
5 Surveillance, CDC. So, you know, this is a great -- great
6 question, Ruth Ann, and we have had -- actually been
7 discussing this issue and looking at different ways that
8 we can, as you said, get -- raise the awareness and get
9 kids back in front of their providers. We recently had a
10 meeting with the, the National Association of School
11 Nurses and -- and being a part of the reason for meeting
12 with that group is because, you know, obviously, they --
13 they can play a critical role in helping to ensure that,
14 you know, little children who are in school have
15 appropriate health -- healthcare and health services. And
16 so part of our discussion with them is to develop and
17 share messages with parents and providers, and, you know,
18 other stakeholders about the issue of, you know, needing
19 to increase rates of screening and, you know, we had a
20 really good meeting and we're -- we're planning to -- to
21 do some collaborations with that group to, as you say, get
22 the word out about the importance of having, you know,
23 kids tested for lead.

24 **MR. AMMON:** Thanks for that response, Paul. Any
25 other questions for CDC?

1 **DR. RUCKART:** Yeah. Matt, two -- two members have
2 their hand raised. I see Jamie and Patrick and after that
3 I think we might need to move on to the next session, but
4 let's start with you, Jamie.

5 **MR. MACK:** Yes, thank you. I just wanted to echo
6 Ruth Ann's comments about the challenges that a lot of
7 states are facing with testing rates. Delaware I know is
8 in the 20 to 30 percent area in compliance with our
9 testing rates, and discussions with other states, I know
10 that it's a common issue across the country. So I just
11 wanted to thank Ruth Ann for bringing that up and, again,
12 echo those concerns.

13 **DR. RUCKART:** Thank you. Patrick.

14 **DR. PARSONS:** Yes. So, you know, can you expand a
15 little bit on this proposal to conduct a PT this year in
16 that concentration registering three and a half to five
17 micrograms per deciliter? Specifically, what criteria
18 will be used to judge whether a reported result is
19 acceptable versus unacceptable. And is this going to be
20 conducted by CDC or will it be something that is conducted
21 in collaboration with an existing PT program provider?

22 **MS. SCHONDELMEYER:** I can speak to that a little bit,
23 but I'm also not a laboratory scientist so I probably
24 can't provide the most satisfying answer. We are working
25 with outside PT programs, such as the Wisconsin PT program

1 to conduct these tests, so I do know that much. As for
2 the criteria and the data analysis, I'm not sure. I can
3 get in contact with our partners in DLS and have them
4 provide a response and get back to you.

5 **DR. PARSONS:** Thanks.

6 **MR. AMMON:** All right. Thank you very much, Rio, for
7 that presentation, and before we move on to the next
8 presentation I do want to introduce another non-voting
9 liaison member, Dr. Lauren Zajac, if you want to introduce
10 yourself.

11 **DR. ZAJAC:** Sure. Hi, everyone. I'm Lauren Zajac.
12 I am a liaison from the American Academy of Pediatrics and
13 I am based at Mount Sinai in New York City, where I am
14 Medical Director of Environmental Pediatrics. Thank you
15 for having me.

16 **MR. AMMON:** Welcome and thank you for that. So on to
17 our next presentation, we have a great panel that will
18 talk about the updates to the Flint Lead Registry. So
19 with that I'll turn it over to Mona.

20 **UPDATES ON THE FLINT LEAD REGISTRY**

21 **DR. HANNA-ATTISHA:** Hello everybody. It is great to
22 be here. It's so wonderful to see so many familiar faces.
23 I just want to start by thanking you all for your service,
24 nationally, to eliminate childhood lead exposure. So
25 thank you for what you're doing and what you have been

1 doing for, for literally decades, so it's an honor to be
2 here with you.

3 So my name is Mona Hanna-Attisha. I'm a pediatrician
4 professor of Michigan State University. I run something
5 called the Pediatric Public Health Initiative in Flint,
6 Michigan. I'm here today with my buddy, Dr. Nicole Jones,
7 who is the Director of the Flint Registry, and we want to
8 give you an update specifically on the work of -- of the
9 Flint Registry. Next slide.

10 So we're going to just briefly review the, the Flint
11 water crisis and the background of the Flint Registry.
12 We'll talk about our numbers, how enrollment's been going
13 in the Registry, what we're beginning to find. We'll go
14 through one of my most exciting subprojects of the
15 Registry, which is our Flint lead-free work. We'll talk
16 about our next steps, the ripple effects of our work in
17 Flint at a city, state and national level. And then we
18 hope to have some questions and discussion. Next slide.

19 So just kind of a quick review since it's kind of
20 been a minute of kind of what happened in Flint and -- and
21 why this Registry, is so -- so important. So the, the
22 Flint water crisis began a little over eight years ago in
23 April of 2014 when the city under kind of this state of
24 usurped democracy under financial emergency management
25 decided as a cost cutting move to change our water source

1 from -- from the Great Lakes to the Flint River. If you
2 guys see Nicole right now, she's got a beautiful map of
3 Michigan behind her. This was accidental, but it works
4 perfectly.

5 So Michigan is surrounded by the Great Lakes and for
6 about a half a century we were getting our water from --
7 from Lake Huron that we bought from Detroit, but then in
8 April of 2014 that water was switched from the Great Lakes
9 through Detroit to the Flint River. The water wasn't
10 properly treated, it was missing a really important
11 ingredient called corrosion control and that made the --
12 the lead that was in our plumbing come out of our plumbing
13 and into our drinking water. So that went on for about a
14 year and a half and I just happened to have with me a lead
15 pipe, not that we should all have lead pipes with us.

16 So this was our prop at a recent Congressional
17 testimony. This is actually the first lead pipe that was
18 excavated in Flint, this is a lead service line. And the
19 corrosive water that was flowing through these lead pipes
20 kind of ate up our pipes. When our friends from the EPA
21 finally came in, they said, it was almost like you were
22 drinking through lead painted straws and you never knew
23 when a piece of scale was going to come off these pipes
24 and into our drinking water. We had lead and water levels
25 in the tens, hundreds, thousands and even tens of

1 thousands of parts per billion and we know there's no safe
2 level of lead. The EPA has a maximum level contaminant --
3 maximum contaminant level goal for lead in water at zero
4 parts per billion. The FDA has a lead in water action
5 level of five parts per billion. For bottled water, the
6 action level for the EPA for water system is at 15 parts
7 per billion, but not health-based and, like I said, we had
8 -- we had lead and water levels in the thousands and tens
9 of thousands of parts per billion for quite some time.

10 So that's kind of a bit about kind of what happened.
11 Our team did the research that -- that found that our kids
12 had elevated lead levels. It's specifically more in the
13 areas where the water lead levels were the worst and
14 nothing really happening outside of the city limits; that
15 was publicly shared. It took a while, but we were finally
16 able to get back to Great Lakes water in October 15 of
17 2015. But our pipes, once again, were so corroded that
18 the -- the long and hard work of replacing our lead pipes
19 then -- then began. We were a federal emergency that was
20 declared in January of 2016 where we got to welcome so
21 many of our friends from the CDC and that's when we first
22 got to meet Pat. Hi Pat, so good to see you. This work
23 would not be possible without the support of Pat and so
24 many folks at the CDC. And then it took a minute, but
25 the, the WIIN Act, which included the funding for our pipe

1 replacement was passed in December of 2016. And in that
2 funding also included the funding for the first four years
3 of the Flint Registry.

4 Until then we were also fortunate to get funding from
5 the state of Michigan, the Michigan Department of Health
6 and Human Services to plan to build a registry, so we got
7 a planning grant. In early 2016 that kind of built the
8 framework, got us to hire Nicole and start building a team
9 on how to kind of do this work in a very community
10 partnered way. And the official funding for the Flint
11 Registry from the CDC began in August of 2017.

12 So the first four years, that was a four-year grant.
13 It was continued for one more year, so we are wrapping up
14 our first five years, which is amazing, of the Flint
15 Registry. And then I think the deadline was yesterday --
16 a couple days ago we just submitted our five-year renewal
17 for the Flint Registry. So as we all understand the
18 science of lead and the science of trauma we know this is
19 long-term longitudinal important work that needs to happen
20 to find folks that were exposed to the water crisis and
21 get them connected to secondary prevention resources.
22 Next slide.

23 So our kind of big goals of the Flint Registry, which
24 were set forth by the CDC was that participants of the
25 Registry will use preventive services, will reduce lead

1 exposures where folks live, work and play. Other
2 participants will experience better health and fewer
3 developmental delays. The data collection, will lead to
4 increased knowledge about the effectiveness of different
5 types of prevention services, leading to improved outcomes
6 that we will lead to increased quality and quantity of
7 data to inform policy and program administration for lead
8 poisoning prevention and elimination. And that we will
9 lead to increase knowledge of about the acute and
10 long-term impacts of lead exposure. So these were like
11 the -- the big -- big goals of the Flint Registry. Next
12 slide.

13 So a little bit about our community outreach kind of
14 marketing and recruitment and I just want to share, like,
15 you know, doing this work in Flint, you know, and
16 continuing to kind of practice in Flint is, you know, has
17 -- has -- has so many challenges, because this is a
18 community that has really lost trust with -- with
19 institutions, and this didn't just happen at the water
20 crisis, this kind of this longstanding kind of lost trust
21 and neglect because there's so many systemic inequities
22 that have made it really hard for the people of Flint to
23 be healthy and successful.

24 So, and remember I also shared that the water crisis
25 was this kind of bizarre state of usurp democracy where

1 people were loud and brave and organized, but their voices
2 were being dismissed and silenced. So we knew that if we
3 were going to do anything in Flint it had to be done in a
4 way that was informed by participatory democracy and
5 self-determination. This work had to be hand-in-hand with
6 our community partners for it to be successful. So we
7 built, you know, we spent a lot of time planning and --
8 and, you know, that -- that logo you see in the corner,
9 that was actually created by a member of our parent
10 partner group and advisory group who said, hey, why don't
11 you choose -- why doesn't the logo for the Registry, maybe
12 we should make it the Sankofa bird and it's this mythical
13 bird from East Africa that's flying forward so speaking of
14 our visionary spirit, but the bird is looking back, we're
15 never forgetting the past and what happened and the kind
16 of historic injustices and -- and that bird has an egg in
17 its mouth, which is about eating our young -- just kidding
18 -- it's about prioritizing our young and making sure that
19 our, you know, our kids' future is -- is first and
20 foremost. So even our logo was developed by -- by a Flint
21 resident. So, you know, they went through our survey and
22 they added questions and made sure we took away questions,
23 and, you know, everything that you see here today, this
24 entire presentation is in partnership with, with our
25 impacted community. Next slide.

1 So these are some and not all of the ways that we
2 have been very deliberate to -- to do this work in
3 partnership. I mentioned, we have a group of parents that
4 advise us, we have a group of amazing kids that advise us;
5 they've named themselves the Flint Youth Justice League
6 and these kids are national leaders. For example, when
7 Newark, New Jersey had a similar water crisis, our kids
8 were Zooming with Newark kids and telling them what a part
9 per billion was. So they've really taken, you know, taken
10 this advocacy to a different level. The -- one of the
11 first things we did when we got funding for the Flint
12 Registry was establish a Community Advisory Board, which
13 is now kind of five plus years on. We've done focus
14 groups with different subsections, our deaf community,
15 our, you know, Hispanic community, education, and the list
16 goes on. We got thousands of bits of feedback when we
17 started pre-enrollment which was where we just asked
18 people are you interested in the Registry? Like, what do
19 you want out of this Registry? Lots of local
20 presentations, hundreds of community and Registry
21 Ambassadors. Our team has hired, the Flint Registry, we
22 have a director of community-based implementation and
23 engagement, so at a leadership level. We have a local
24 Community Ethics Review Board that has also kind of
25 reviewed and approved everything that the Registry does.

1 So just a couple, not all, of some of the examples where
2 this work has been done, once again, in partnership with
3 the impacted community. Next slide.

4 Lots of partners just, you know, probably I'm sure
5 we're missing folks here of -- of folks that we work with
6 and at the city and -- and kind of state level to -- to
7 make this project happen. Next slide.

8 And lots of kind of innovative marketing and social
9 media messaging. Once again leveraging, you know, trusted
10 community members collaborating with other partners to do
11 kind of co-outreach. For example, with our county mental
12 health association or others that are already doing
13 outreach and kind of tagging along and sharing similar
14 messaging. There's a lot of folks in Flint doing great
15 work, trying to get folks connected to a great thing so
16 really kind of leaning on those partnerships to -- to not
17 be duplicative. And one of our most kind of exciting
18 marketing pieces that have come out recently is our
19 inaugural report, which really reflects on kind of the
20 first four years of -- of kind of where we've been and
21 where we hope to go. We -- we mail, you see those masks
22 so we, we mailed every Flint resident, two masks at one
23 point. I guess now they should have been like N95s, but
24 we didn't know that much then. And it's wonderful, you go
25 around the city, you see tons of people wearing Flint

1 Registry masks. So, you know, supporting public health in
2 many ways, but also doing a lot of kind of branding and
3 getting more folks enrolled. Next slide.

4 So our recruitment and our outreach, it goes -- does
5 broad marketing and we try to, you know, have a lot of
6 visibility in the community. We also do a lot of
7 targeting recruitment; we've been fortunate to have
8 relationships with the state and other organizations to --
9 to get lists of folks that we consider high risk to -- to
10 make sure that they're enrolled in the Registry, and this
11 is kind of really the direction where we're going to be
12 going in the next phase of the Registry, really going
13 after the -- the youngest children during the water
14 crisis, the zero to six kids. This was also done in
15 partnership with a HRSA Healthy Start grant. We've
16 already enrolled 33 percent of those kids that were in
17 that age group and our target there was 25 percent, so
18 we've exceeded that goal. Really going after the kids
19 who, during the time of the water crisis, had a blood lead
20 level greater than 5 and maybe we'll go down to 3.5. Our
21 testing rates were really low at that time, so you know we
22 don't consider this as the only marker to exposure. And
23 we're almost at that goal of getting all those kids. We
24 also know, every address, what kind of pipe they had
25 because, you know, we've done, the city's done some

1 innovative mapping with some partners. So we are making
2 sure that folks who lived in homes that had a dangerous
3 lead service line which, which is either lead or a
4 galvanized pipe that were -- they're being heavily, you
5 know, targeted for -- for enrollment in the Registry, as
6 well. And then, lastly, with a partnership with HUD we
7 are working with a team at the University of Iowa to
8 develop an address-specific lead in water score. So
9 really trying to figure out how much lead was going into
10 every address and that score is going to be a combination
11 of what kind of pipe they had coming into their home, you
12 know, the water usage, because we know that flow rates and
13 the kind of volume of flow also determines potentially how
14 much kind of lead may have been in that water and other
15 variables to -- to also kind of target high risk folks to
16 enroll them in the Registry. So we're trying to apply
17 some really cool science to go after folks who aren't
18 enrolled yet to make sure that they have the benefit of
19 being part of the Registry so that we can see how they're
20 doing, but more importantly, that we can connect them to
21 secondary prevention resources to mitigate the impact of
22 the exposure. Next slide.

23 I'm going to pass it on to Nicole who's going to talk
24 about the process and the numbers.

25 **DR. JONES:** Great, so I just want to spend a minute

1 talking about sort of the infrastructure of the Registry
2 that we put in place and how that maps back to our public
3 health goals and how it creates our future infrastructure
4 to really utilize the data to understand more about the
5 impact of the water crisis. So when people enroll in the
6 Registry, they complete their eligibility screening and
7 their consent. Our consent process is granular so
8 individuals can choose which parts of the Registry they'd
9 like to participate in. About 84 percent of adults choose
10 to not only be in the Registry, but they also choose to be
11 part of the referral process. Eighty-nine percent of
12 adults also consent to be contacted about future research
13 projects. And then 71 percent of adults allow us to not
14 only take the Registry -- participate in the Registry, but
15 also allow us to connect to MDHHS data sources, through
16 their consent process. So allow people to, like, we kind
17 of allow people to choose what -- what pieces of the
18 Registry they'd like to participate in.

19 Our baseline survey is focused on service
20 utilization, the physical -- the impact on physical and
21 mental health, as well as child development. We use the
22 questions from the baseline survey to allow us to make
23 referrals to service providers, where over 30 services
24 that we are currently referring individuals to. And once
25 we make a referral the service providers then follow up

1 with individuals to get them sort of completed and
2 connected to services and programs. So as I stated we're
3 also working on linking to MDHHS data sources and other
4 external data sources that will enhance the Registry data.
5 We're also working with partners at the University of
6 Michigan to create a virtual data enclave, which will host
7 de-identified data that will be available for external
8 researchers to use in the future.

9 We, again, linking back to our public health goals of
10 looking at health and development over time, we
11 implemented a one-year follow-up survey that we completed
12 during the first five years of funding to again look at
13 health and development over time, but also connect people
14 to services. And then our long-term plan is to continue
15 to do survey waves and continue to make referrals to
16 services. Next slide, please. Next slide, please, sorry.

17 So just our -- this is, these are the numbers again
18 as Mona talked about the inaugural report that we shared
19 back with all of our enrollees, as well as community
20 partners as part of our inaugural report that went out.
21 I'm just looking at our progress over the first four
22 years, we've enrolled 16,000 individuals in the Registry.
23 Our goal is to get to 20,000, which is about 20 percent of
24 the residents that lived in the city of Flint at the time
25 of the water switch, and we are getting very close to that

1 goal at this time, so moving forward. Next slide, please.

2 Just to tell you a little bit about who's in the
3 Registry, so about a third are children; that means
4 parents are completing surveys about their children.
5 About two-thirds of our enrollees are adults. I'm looking
6 at where people lived at the time that they enrolled in
7 the Registry; about 80 percent of individuals who enrolled
8 still lived in the Flint area, 11 percent are still in the
9 county, four percent somewhere in Michigan but outside of
10 the county, and then we have a small percentage of
11 individuals who moved outside of the state, but still
12 heard about the Registry and were able to enroll.

13 As Mona talked about marketing and outreach, the
14 three different ways that we kind of connect with
15 individuals in the Registry are through marketing outreach
16 in our list-based approach, which is where we target lists
17 of individuals who are potentially eligible. That might
18 be a list that we get from a partner hospital or a list
19 from the Michigan Department of Health and Human Services,
20 as well as look on targeting local -- our current
21 residents of the city of Flint. So we also keep track of
22 how individuals hear about the Registry, and as Mona
23 talked about, our Ambassador Program. One of the top ways
24 that individuals hear about the Registry is through the
25 word of mouth. We're also looking and continue to look at

1 how we're doing with regards to the distribution of
2 enrollees across the city of Flint, and this is again
3 based on residence at enrollment and we've been using this
4 sort of strange and continuous (indiscernible) they do
5 targeted outreach to make sure that we have an even
6 distribution of enrollees across the city of Flint. And
7 then, finally, we developed a process with community input
8 that was multimodal so that people could do their surveys
9 online or over the phone or through the mail or in person,
10 what really worked best for them. Obviously, with COVID
11 we had to change that strategy a lot. Online is the
12 number one way that people enroll in the Registry, but
13 there are a significant portion of people who prefer to
14 have the surveys read out loud to them over the phone. So
15 our recruitment strategy includes lots of emails and text
16 messages and mailings and phone calls to really encourage
17 people to complete their surveys. So moving forward to
18 the next slide, please.

19 Again, we're focused in four key areas when we're
20 making referrals related to lead exposure. Health, that
21 includes mental health, physical health, dental health
22 services for adults, services for kids and services for --
23 that are more targeted towards seniors, child development.
24 Obviously, as our population ages and we get further away
25 from the exposure we're making further -- fewer referrals

1 in this area, but we're still continuing to make a lot of
2 referrals for kids to the Neurodevelopmental Center for
3 Excellence which I'll talk about in a second, and then
4 nutrition programs. Next slide, please.

5 So with regards to where we're making referrals, the
6 number one referral for us, for both adults and kids, we
7 total all together is lead -- our lead elimination
8 services. About 67 percent of participants who enroll in
9 the Registry receive at least one referral. People may
10 not get a referral either because they didn't consent to
11 be part of the referral program because they're not
12 eligible for the services that we are enrolling them in or
13 maybe they've already enrolled in those programs, and on
14 average for individuals who are receiving referrals, they
15 receive about two per participant, but we have some
16 referrals who -- families who've received over a dozen
17 referrals to services. Next slide, please.

18 And then just giving you sort of a snapshot when we
19 started, we really didn't know what was going to be the
20 most important services for families. For adults we made
21 a lot of referrals to the pipe replacement program.
22 People, at their request, want to be connected to that
23 program. We also are a second most common referral for
24 adults is to our community mental health provider and
25 we'll make that referral, again, if either an adult asks

1 for a referral or if based on some of the screening
2 questions that we have related to mental health, we feel
3 like they would benefit from a referral to a mental health
4 provider.

5 The other top three referrals for adults are all
6 related to food support. That's emergency food support or
7 longer term support through programs like SNAP or our
8 Double Up Food Bucks program.

9 For kids you can see, there are a lot of referrals
10 made to the Neurodevelopmental Center of Excellence or
11 NCE. This is a referral that we make if a child screens
12 high on one of our behavioral assessments that the parent
13 is completing, so we, again, think they would benefit from
14 a referral for a complete neuropsychological assessment or
15 if a parent makes a request. And then rounding out the
16 Lead Safe Home Program, we make a lot of referrals to that
17 program, as well as access to healthcare, nurse case
18 management for elevated blood lead levels; maybe parents
19 reported that they haven't been connected to, as well as
20 child dental services. So moving forward to the next
21 slide, please.

22 So just really quickly, like, what are we hearing?
23 How are people doing? Just a real big snapshot when we
24 ask adults about their physical health, you'll see that,
25 in the category of for -- fair or poor, we have over a

1 third of adults who are saying that their physical health
2 is fair or poor, the same thing for mental health, about
3 the same percentages that we're seeing adults rate -- rate
4 their mental health as fair or poor. Moving down to the
5 next slide.

6 When we asked parents of -- or adults about stress or
7 pressure, just thinking about what they're dealing with on
8 a daily basis, again looking at a perceived stress score,
9 we see that our adults are reporting a lot more stress or
10 pressure on a daily basis as compared to what we sort of
11 expect from national norms and that especially our young
12 adults have the highest levels of perceived stress or
13 pressure. Next slide, please.

14 We're hearing a lot about financial stress for
15 families. This is just a couple of questions about
16 covering basics like food and housing. If you look at
17 that -- that particular question, you'll see that 11
18 percent plus 35 percent is 46 percent, almost half of our
19 families are saying that it is very hard for them to cover
20 basics like food and housing, and again, as you saw from
21 our referrals, a lot of families are struggling with food.
22 So half of our families say they can afford enough to eat,
23 but not the kinds of foods they should eat. And then 17
24 percent of our families are dealing with situation where
25 sometimes or often they cannot afford enough to eat. So

1 moving to the next slide.

2 And then, just how are kids doing as how are parents,
3 like, what are their concerns about their kids. About ten
4 percent of parents report their child's physical health as
5 fair or poor, and then a higher percentage, 16 percent of
6 parents are saying that their child's mental health is for
7 -- fair or poor. And the next slide, please.

8 And then this is just the final sort of deeper dive
9 that we're looking at is, specifically, looking at
10 behavioral health and what kids might -- behavioral health
11 might look like in response to everything they're dealing
12 with their environment, including this exposure to lead.
13 This is one of the standardized assessments that parents
14 are completing about their child at baseline. It's called
15 the BASC, and in this particular slide I'm showing you
16 four different domains of behavior: externalizing
17 problems, internalizing problems, behavioral symptoms and
18 adaptive symptoms.

19 I'm also splitting this out by age and gender. So
20 there are three different types of assessments: preschool,
21 school aged and adolescent and then split -- splitting for
22 males and females. And what you can see, by this line
23 going across this 15.7 percent based on the standardized
24 assessment, this is where we sort of expect the number of
25 percent of children to -- who are at risk or score at risk

1 are clinically significant on this particular instrument.
2 This is the percentage that we expect, and you can see for
3 our kids across all domains, age groups and genders,
4 they're scoring much higher. And Mona I don't know if you
5 want to take over from here, you can also talk about like,
6 all right, this is what some of the first -- first work
7 that we're kind of releasing from the Registry is part of
8 -- also as well, so.

9 **DR. HANNA-ATTISHA:** Yeah. There's a -- this is about
10 -- this work about children's behavior is about to be
11 published in a -- in a journal, I think, within the next
12 month or so and we'll share that. So we -- we now have
13 the data, a lot of data, huge sample size, 20,000
14 participants to really be able to answer that question of
15 how people are doing. Once again, this work is
16 longitudinal. If we respect that kind of science of lead,
17 we really have to look at this over time, which is --
18 which is our goal and our intent over the next few years.
19 Next slide.

20 So on to Flint Lead Free, so a kind of a task of the
21 Flint Registry is to look at, obviously, overall lead
22 exposure, reduce overall lead exposure. So next slide.

23 We created a workgroup with many sectors because
24 everybody who works in lead knows that you have to have
25 all kinds of folks at the table. So we have our partners

1 from government and healthcare and early childhood in the
2 schools and -- and landlords and the community foundation
3 and philanthropy. So lots of folks, Healthy Housing
4 partners, lots of folks at the table to convene the --
5 this other kind of subgroup called Flint Lead Free where -
6 - with a goal of eliminating lead exposure. And -- and we
7 really kind of think we can do this because, you know,
8 we're a city that's primed; we know about lead. We're a
9 city that's now just one of a handful that is eliminating
10 all their lead pipes, but obviously that's now become an
11 -- going to be a national story. We are part of the Lead
12 Safe Home Program which we were chatting about in the --
13 in the chat. It's the -- a CHIP, we received a CHIP --
14 the state received a CHIP/SPA waiver that allows us to do
15 primary prevention, where kids on Medicaid and CHIP can
16 get a free home inspection and abatement that's not
17 related to a lead level, so lots of, and we have a HUD
18 grant. We have lots of other resources in place and --
19 and committed folks who are -- are working to -- to
20 eliminate lead exposure. So we have these comprehensive
21 reports that we've been able to put out, we've put out
22 two, they're on our website, where we look at kind of the
23 burden of environmental lead that we've been able to
24 reduce and, you know, the impact of that. We've even
25 worked with our lead economist friends, folks at Altarum

1 who did the, the lead econo -- lead economic work for the
2 Pugh Robert Wood Johnson report a few years ago where
3 they've been able to put a city level price tag or city
4 level savings actually on our lead elimination work and --
5 and just in the first few years of this our prevention
6 activities by replacing lead pipes, by abating homes, has
7 generated -- or is expected to generate \$53.3 million in
8 future economic benefits. So we're, you know, we're
9 really excited about this city specific work and -- and
10 our hope to -- to kind of share what we're doing but also
11 to kinda continue to work to -- to eliminate all kinds of
12 lead exposure that our kids face. Next slide.

13 So the next steps for the -- for the Flint Registry
14 is, you know, working even harder to get those high risk
15 groups enrolled -- enrolled in the Registry, so that, once
16 again, they can benefit from the Registry, ongoing
17 surveillance and cohort maintenance, doing follow-up
18 survey waves. A lot of the Flint Registry is modeled
19 after our friends at the World Trade Center Registry, kind
20 of helped get us connected to them many years ago. And
21 you know they do survey waves every five years to see how
22 their cohort is doing and, you know, we're planning on
23 another big survey wave to -- to continue to follow-up the
24 folks, maintain our cohorts, stay connected, share
25 communications, share different resources, new resources

1 with the folks that are already enrolled and, and we're
2 really close to that 20,000 number which -- which has been
3 our goal. And then, obviously, ongoing evaluation of our
4 data. We have lots of data that we haven't even looked
5 at, so much data. If anybody wants to work for us, let me
6 know, we'd love to hire you. And then continuing to kind
7 of inform policy and practice based on -- on what we're
8 learning. Next slide.

9 We've been able to already kind of build the
10 infrastructure to support, like, side projects and other
11 research projects this -- the Registry is just this
12 amazing database of folks and I'm just going to share two
13 projects, there's -- there's more, you know. One is a
14 grant that one of our -- our research colleagues received
15 to reduce COVID disparities and he's tapping into the
16 Registry database to recruits to address antibodies for
17 COVID, and -- and how to reduce disparities of -- of COVID
18 exposure. My favorite project is -- is Flint Tooth FAIRY.
19 This is funded by the Robert Wood Johnson Foundation.
20 We're tapping into the Registry database to recruit
21 children who were the youngest at the water crisis, who
22 are now just losing their teeth. So all of us in -- in
23 lead know that, you know, teeth were -- have always been a
24 critical part of our story, you know, our Meal Menus Teeth
25 and in Philadelphia to look at how kids were doing. So

1 we're -- we're doing a little bit of a fancier analysis
2 with our partner at Mount Sinai who probably many of you
3 know, Manish Arora, who's looking at teeth from -- from
4 Flint kids who were the youngest of the water crisis which
5 we've really been unable to kind of historically assess
6 their exposure. These kids did not get their blood lead
7 levels, lead in water affects a younger age group than the
8 kids who are -- who are usually our partner surveillance
9 programs. So we've collected hundreds of teeth, literally
10 hundreds, we get teeth in the mail all the time, it's
11 bizarre, it's wonderful. And we're -- we're -- the
12 Registry if, you know, it's that infrastructure that's
13 allowing folks to participate in future kind of research
14 -- research projects and that's all based on their
15 consent.

16 We have also been able to connect folks to other
17 resources that have come up in the community. One of our
18 community partners received a grant to connect kids who
19 have a lot of ACEs, early adversities to the earned income
20 tax credit so, you know, we've also been able to leverage
21 our infrastructure to respond more readily to the
22 pandemic. One of the bright linings of -- of COVID is
23 that, you know, for Flint is that we had just come off one
24 public health crisis and then into another public health
25 crisis but we had already built this infrastructure,

1 specifically, the Registry that connected people to things
2 that they also really needed in COVID, like food and
3 trauma informed care, and access to a medical home, and
4 enrichments for children. So that infrastructure was
5 readily, you know, leveraged for -- for COVID, as well.
6 Next slide.

7 So other kind of Flint updates, so I brought my pipe,
8 so Flint's almost done. I've been saying this for a long
9 time, almost done replacing our pipes and I think it's a
10 couple months away there's some really hard to reach
11 addresses but that's fantastic news. The story for -- of
12 in regards to accountability and justice is ongoing, there
13 was a settlement with the civil cases, the criminal cases
14 are still ongoing. The -- the Flint -- Flint received a
15 Medicaid waiver that increased the age and eligibility of
16 Medicaid to 21 years of age and 400 percent of poverty.
17 That was renewed for another five years, which is
18 phenomenal. The Medicaid waiver also included some family
19 supports and home visiting. I've already mentioned the,
20 the CMS, CHIP/SPA Lead Safe Home Program, this primary
21 prevention program. And I hope -- I saw Karen on the
22 agenda. Karen's wonderful. I hope she talks about that
23 too. But that has been a fantastic model. I know other
24 states, including Maryland, have also received this --
25 this -- this waiver to do primary prevention for lead --

1 for lead exposure.

2 After the water crisis, the Michigan Child Lead
3 Exposure and Elimination Commission, a statewide
4 Commission was -- was set up, a permanent Commission. I
5 serve on -- as the Vice Chair and we've also been able to
6 really move at a state level to -- to -- towards primary
7 prevention and -- and look at different kind of policies
8 and programs that we can -- we can do.

9 Michigan has a model Lead and Copper Rule which even
10 exceeds the new national standard that improves kind of
11 sampling for lead in water, that has picked up more action
12 level exceedances, also known as ALES and -- and we'll
13 eventually lower that lead in water action level, as well,
14 so that's something to be applauded.

15 We are excited about the EPA Lead and Copper Rule
16 revisions. We think they could be even better, but
17 they're still an improvement in terms of reducing lead in
18 water exposure. We are super excited about the National
19 Infrastructure Investment and Jobs Act, which is the
20 largest investment in -- federal investment in lead in
21 water elimination. It's not all the money to remove lead
22 pipes in the country, but it is still a significant effort
23 that is, obviously, primary prevention that -- that
24 removes lead service lines.

25 And then I think, you know lastly, we have been so

1 kind of blessed and privileged to be a resource for so
2 many other communities to -- to kind of strive to get at
3 what we all want to do here, which is eliminating all
4 sources of lead for -- for all children and definitely
5 reducing those disparities and inequities that exist when
6 it comes to lead exposure. Next slide.

7 That's all we have. We look forward to any questions
8 and comments. This was just very superficial kind of
9 going over everything, and this -- we can share a lot more
10 information if anybody would like about what the Flint
11 Registry is and what we're doing. Thank you, everybody.

12 **MR. AMMON:** Turn it over to Perri for a quick
13 comment.

14 **DR. HANNA-ATTISHA:** Perri, you're on mute, Perri.

15 **DR. ALLWOOD:** Yeah. This is Paul Allwood. Perri had
16 been having a little bit of internet problems, Matt.
17 So...

18 **DR. RUCKART:** No, I'm here.

19 **DR. ALLWOOD:** Oh, you're there, Perri? Okay, great.

20 **DR. RUCKART:** Sorry. Yeah, I just didn't want to
21 come off mute too soon and then you run the risk of not
22 coming off at all, which is what's happened. But I just
23 wanted to remind all of our members to please limit the
24 chat -- the chat for questions of a logistical or
25 technical nature and that way I encourage you to voice all

1 of your comments or questions so that the audience and the
2 other members get the benefit of the responses. So thank
3 you.

4 **MR. AMMON:** Thank you for that. We have,
5 unfortunately, three minutes to open up for questions.
6 That was an amazing, amazing overview. I really
7 appreciate it. I'll do the quick second where this is
8 really about taking the opportunity and looking at things
9 in a holistic way. I think the wrap-around services that
10 you all provide regardless of the entry, whether it's
11 home-based or medical-based, you know, it's really amazing
12 because you're not looking at these things in isolation
13 but really as collected -- collective impact, sorry, and
14 connected impact so it's just amazing what you all have
15 been able to do. And -- and, of course, you had mentioned
16 the WIIN Act of -- of 2016 which also helped establish
17 this advisory committee. So fun fact in terms of the
18 connection. So I will open it up for those who have
19 questions or comments and I will scan the participants to
20 see if anybody has any questions or comments. We only
21 have about two minutes. I saw an earlier question from
22 Ruth Ann which was already answered.

23 **DR. RUCKART:** Howard Mielke had a question. Howard,
24 did you want to ask now?

25 **DR. MIELKE:** Yes, I did -- I do. Mona, I really

1 admire the work you've done and the way in which you've
2 pulled so many people together and done the work. I was
3 wondering if you've done any work on the outside
4 environment, such as the play areas of the children. I'll
5 talk more about that later, but it's just one question
6 occurred, I think needs to be answered.

7 **DR. HANNA-ATTISHA:** Yeah. That's a great question.
8 We, our team, specifically has not done that. We have
9 partners that do a lot of work with soil. Michigan State
10 University is a kind of land grant extension school that
11 has done for a long time, soil testing. There's another
12 group of local farmers called Edible Flint that also does
13 kind of soil testing. We had a post-manufacturing city --
14 post-manufacture city with a lot of contaminated sites and
15 we also have a lot of demolition happening with our land
16 bank and different things. So, you know, there's --
17 there's one of the notes in our Flint Lead Free Report is
18 that we need to do a better job looking at all of these
19 other kind of potential sources of lead and making sure
20 that any kind of demolition work, you know, soil work
21 whatever how, you know, is done in a way that doesn't
22 create more lead exposure. Something that we have been
23 able to do when it comes to play spaces, our Flint Kids
24 Fund built ten new playgrounds, you know, because
25 obviously children also need to play. So making sure that

1 all of these -- these new things are done in a way that
2 also doesn't increase lead exposure.

3 **MR. AMMON:** Thank you for that. Well actually we're
4 going to move on to the next presentation, but I really
5 appreciate your presentation. Obviously, it's just
6 amazing what you all have been able to accomplish and --
7 and we are here to support you in that effort and please
8 keep us in mind if you need something from us. We have a
9 lot of agencies on -- on the -- on the panel here, but
10 just keep us updated and we wish you best and again we're
11 here to help.

12 **DR. HANNA-ATTISHA:** Thank you, and once again, thank
13 you to all of you for doing what we do -- you what you do.
14 Take care.

15 **MR. AMMON:** Thanks again. So, moving on we'll hear
16 an update about lead exposure in Clarksburg, West
17 Virginia, which we -- many of us here are now part of
18 working toward the -- that solution and I will turn it
19 over to Paul.

20 **INFORMATION ABOUT LEAD EXPOSURE IN CLARKSBURG, WV**

21 **MR. ICE:** Hi. Thank you. My name is Paul Ice. I
22 work for the Office of Environmental Health Services. I
23 was the one who actually did the lead assessments and
24 started all this process in Clarksburg. So could you go
25 to the next slide, please.

1 So this presentation we're looking at three homes
2 that actually started this investigation into the levels
3 of drinking water. We're also going to talk about some of
4 the corrective actions, some of the education outreach
5 that we've done, some of the efforts to increase blood
6 lead testing in Clarksburg, Harrison County, and even
7 expand that through the entire state of West Virginia.
8 These lead assessments were conducted between September
9 2020 and April 2021. And there were three homes that are
10 all located within the city limits. The first two homes,
11 I mean, there were within a half a mile of each other and
12 one other home, you know, those three miles from the first
13 home. And all three of these homes do have the same
14 public water system, but we want to make a special note,
15 we've been saying this all along, that there were other
16 environmental lead contaminants that were found in the
17 homes, so there were other reasons other than the water
18 that the children in these homes could have had elevated
19 blood lead levels. Next slide, please.

20 So the -- just wanted to throw these out there for
21 those who don't know the action levels. So for soil,
22 anything over 400 parts per million, we consider a
23 positive for bare soil. And water, it's over 15 parts per
24 billion. Window sills, a hundred micrograms per square
25 foot. On floors, ten micrograms per square foot, and on

1 paint chips, over 5000 parts per million. And you'll see
2 me use first draw, just define that that first draw is
3 that the water has been sitting in the pipes for at least
4 six hours. Next slide, please.

5 So Home 1 was referred to our program in August of
6 2020. It was referred to us by another office, which
7 we'll be talking on the second part of this slide. The
8 assessment was completed in September. This home was
9 built around 1920. So we had some positive x-ray
10 fluoroscopes, XRF; this is a machine that will read lead
11 paint, it will tell us if there are any positive lead
12 paint readings in the home. There were multiple rooms and
13 first home, you know, sunroom, there was outside of the
14 home, there was XRF readings showing the front porch, the
15 exterior windows and there was a shed on the property.
16 All these were positive readings by our XRF. There were
17 no soil samples that exceeded 400, but we did have a
18 couple samples that were 290 parts per million, and 370
19 parts per million. And since lead is cumulative, if
20 children are out there playing in the soil and they keep
21 getting contact with that soil, putting things in their
22 mouth, you know, they dig in the soil, that can increase
23 their levels as well. Next slide.

24 We have some dust wipe samples on the window sills in
25 the child's bedroom that came out 1400 micrograms per

1 square foot, so many times over our dust limit. There was
2 a pocket door; now this is not something that is unusual.
3 Pocket doors go in and out of the wall, they are great
4 dust collectors. Parents like to use them as like a baby
5 gate to block off rooms. So it's just the right height
6 for these little ledges that are on these pocket doors for
7 the children to run their hands. So I did a sample of
8 that, it came back 73, showed lead dust was present. And
9 then there was a desk just sitting in a hallway and it
10 came back at 231 micrograms. The first water -- or first
11 draw water sample was taken, and it came back at 10.8
12 parts per billion. Now, this is not over the fir -- the -
13 - the current federal action level of 15 parts per
14 billion, but it was an elevated level, so it kind of, you
15 know, gave me a little notice that there was something
16 there. But like I said, since there was -- it's not over
17 the action level, really no other action was taken on this
18 home. Next slide.

19 So I just dive -- you know, we had 34 positive
20 readings on this house for our XRF, these were dust wipe
21 samples, our soil samples and our water, just a little
22 diagram table of those. Next slide.

23 So Home 2 was referred to our program in December of
24 2020 and the assessment was completed in January. This
25 home was also built about 1920. Once again, we had

1 positive XRF readings in multiple rooms inside the house;
2 including the outside of the house, we had the front
3 porch, we had an exterior of a separated garage. Once
4 again, we had no soil samples over 400, but we did have
5 one it's 240, you know, not exceptionally high, but once
6 again, the child's out there playing, repeated tests -- or
7 putting things in their mouth, that soil could raise their
8 levels. Dust wipe samples, no dust in this home. Next
9 slide.

10 So our cold water first draw sample in this one,
11 kitchen sink, we get the notification that this test
12 results came back 285.2 parts per billion, extremely high.
13 Our laboratory actually sent us a special note on this
14 one. We actually contacted the homeowner and went back to
15 this particular house and took additional samples, as you
16 see, in the kitchen sink, downstairs bathroom sink and
17 upstairs bathroom sink. Kitchen sink, we had seven parts
18 per billion, four parts per billion on the bathroom sink
19 up -- downstairs, but the upstairs bathroom sink we still
20 found elevated levels of 23.9. These were all first draw
21 samples. However, when I discussed this with the
22 homeowner, we were going to do some additional testing on
23 the site, the homeowner just didn't want any further
24 testing on the site. Actually for this particular home
25 the homeowner actually moved soon afterwards. Next slide.

1 So once again, a table of our findings. We had 21
2 positive XRF readings. No positive samples on our dust
3 wipes. We did two soil samples but the highest was only
4 240 parts per million, well below the action level, and
5 there's our soils, or excuse me, our water samples. That
6 285 was a very, you know, concerning number for us. Next
7 slide.

8 So then we did a third home. Third home was referred
9 to us in March, and we completed it in April. Notice once
10 again, home was built in 1920. It's kind of a reoccurring
11 issue here. A lot of these homes in Clarksburg are built
12 around this time period. I just recently did a house,
13 actually yesterday in Clarksburg, that was built in 1910.
14 So we're getting a lot of these homes that are very old
15 homes that are painted with lead paint. We're getting
16 high readings on our XRF at times. Near major roadways so
17 we're getting some soil samples that do come back positive
18 on occasion. But for this third home, we did have a few
19 XRF readings, not very many. There were, once again, we
20 had no definitive positive dust wipe samples, but I'm
21 going to go over a few of those, and no positive soil
22 samples. We had one paint chip sample that was 6000 parts
23 per million, which was a positive reading. However, this
24 particular home, we had a possible contamination of the
25 father bringing home some contaminants. The father in

1 this case worked in construction industry. He worked on
2 old homes. So we did some kind of, you know, unusual
3 samples with his clothing. We did dust wipe sample that
4 was taken from his work boots, it came back 35.4. With
5 this particular, you know, work boots he did bring them in
6 the house, you could have dropped them on to the floor, so
7 there could have been contaminants brought home. Work
8 pants, just took a '70s work pants, did a dust wipe sample
9 on his work pants, came back 144. Once again, you know,
10 if he comes home, a child runs up to him, grabs those
11 pants just that right level, we could get some poisoning
12 of the child through that. Water results on this one, a
13 first draw sample was 20.3. So of course we were over our
14 15 parts per billion limit on this house. Next slide.

15 So in May 2021, our office, Childhood Lead Poisoning
16 Program, notified our Environmental Engineering Division.
17 Both of us -- both work under the Office of Environmental
18 Health Services so it would really just be walking across
19 the room and having a chat with our engineering division.
20 That two homes in Clarksburg are found to have lead in
21 their public drinking water above EPA's action level and
22 the third had an elevated. We actually went back to the
23 third home and did an upstairs bathroom cold sink. We did
24 a first draw on that and the sample results, of course,
25 were 15.5 parts per billion, then we did a time test on

1 the kitchen cold water sink. We did an initial draw, then
2 we did after 30 seconds, 60 seconds, 90 seconds of a
3 flush. As you can see the test results, we had a 12.4 for
4 initial, went up to 55.1 after 30 seconds, came back down
5 to 11.5 and then we have a 6.9 after 90 seconds. Next
6 slide.

7 Once again just the table of everything so we could
8 see how our test results came out on our dust wipes. We
9 did have a stairs that we did on this one, it came back
10 9.54 just below the level of ten. I did a sample of mini-
11 blinds in the house, mini-blinds are great for collecting
12 dust. A lot of people have issues trying to clean those
13 so we did something with those. It came back 9.28 so
14 there's lead but -- present but, you know, it was a low
15 level. Of course the soils, I did four soil samples at
16 the home, had a level 180 was our highest but we did have
17 one paint chip in the home that was over 6000. Next
18 slide, please.

19 Here's a table of our water results, as you can see
20 the first test was over the guidelines. When we went back
21 and did the resamples, we did have elevated levels on the
22 resamples. Next slide.

23 So we just received these test results from the
24 Clarksburg Water Board. So the Clarksburg Water Board is
25 the public water source for Clarksburg. They collected

1 samples at the meter pits, so this is before the property.
2 We had a question of whether or not these water samples
3 that we were getting was from the lead pipes on the
4 property side or the lead pipes that were on the
5 Clarksburg Water Board side. They collected these test
6 results at the three homes. Test results came back 21
7 parts per billion, 30 parts per billion and 8940 parts per
8 billion. Of course, all those are above the EPA action
9 levels, this is -- was on Clarksburg Water's side. Once
10 we got these test results and Clarksburg got these test
11 results they understood that they -- there was an issue on
12 their side because Clarksburg Water Board most recent line
13 inventory that was submitted in 2019 indicated there was
14 no presence of lead lines in their systems. So for years
15 they've been saying, we have no lead lines within our
16 system, which obviously that was not the case when they
17 went to test their -- their water samples. Those lead
18 lines were replaced at those three homes after these water
19 samples were taken. And now we have actually a map within
20 the Environmental Engineering Division that does show that
21 there are multiple lead lines within Clarksburg. Next
22 slide, please.

23 So the OEHS test results, along with the Clarksburg
24 Water test results, they were emailed to our engineering
25 division. Our office pushed water systems, notified

1 customers, the water system felt that this was not
2 necessarily -- because they were really not out of
3 compliance with the EPA's Lead and Copper Rule at this
4 time. They had some elevated levels, but the percentages
5 on test results were not over the Lead and Copper Rule.
6 However, on July 2nd the Bureau for Public Health, which
7 is who we all work for here, Office of Environmental
8 Health Services issued an administrative order, and that
9 is EE-21-12 to the Clarksburg Water Board. Next slide.

10 This order then required the Clarksburg Water Board
11 to find alternate sources of drinking water and to use
12 point of use filters that were known for lead lines that
13 exist. So the Clarksburg Water did provide water to
14 houses within Clarksburg. They also provided water
15 filters, both water filters attached to the faucet and
16 water pitchers. I know I did a house recently after this
17 happened and the water filter would not fit on their
18 faucet. They have a different style faucet. They would
19 either had to replace the faucet or use a water filter --
20 water pitcher and they ended up using water pitchers.
21 This order also required the Clarksburg Water Board to
22 submit a corrective action plan to the Office of
23 Environmental Health Services Director. The order for the
24 -- further required that Clarksburg Water Board conduct
25 additional water testing in the area which has been

1 happening over the past year, conduct lead service line
2 replacements which are -- is ongoing, you know, due to
3 money. Of course we hope with the new action with the
4 federal government that this will start taking place with
5 a little bit more rapid fashion. And then to conduct lead
6 public education, which is ongoing as well. My office is
7 part of the lead education, we do have the Office of
8 Maternal, Child, and Family Health also does lead
9 education in the area, the local health department is
10 doing education in the area, and Clarksburg Water Board is
11 required to do education in the area. The order is still
12 in effect and the actions are ongoing. Next slide.

13 At this point I'm going to turn you over to Cori Ice
14 with the Office of Maternal, Child, and Family Health.

15 **MS. ICE:** Good morning, everyone. My name is Cori
16 Ice. I'm the Health Education Coordinator for the West
17 Virginia Childhood Lead Poisoning Prevention Program. In
18 July of 2021, the U.S. Environmental Protection Agency, or
19 the EPA, Region Three Enforcement reached out to the
20 Agency for Toxic Substances and Disease Registry, the
21 ATSDR, also Region Three, to discuss options to support
22 further assessment of the exposures to lead in the
23 Clarksburg community, including increasing the childhood
24 blood lead testing. The ATSDR began coordinating with the
25 National Center for Environmental Health's Lead Poisoning

1 Prevention and Surveillance Branch. The SCA began
2 facilitating discussions with the West Virginia Department
3 of Health and Human Resources, Bureau of Public Health,
4 Office of Maternal, Child, and Family Health, Childhood
5 Lead Poisoning and Prevention Program. Next slide,
6 please.

7 A strategic planning communication team was
8 established and continues to conduct regularly scheduled
9 meetings to coordinate federal, state and local efforts
10 and provide support towards this effort. Members include
11 our office, the West Virginia DHHR, your public health,
12 Office of Maternal, Child and Family Health, Childhood
13 Lead Poisoning Prevention Program, as well as our Office
14 of Environmental Health Services from which Paul is from.
15 West Virginia DHHR Office of Communications. Our DHHR
16 West Virginia Women, Infants, and Children Office of
17 Nutrition Services, the Bureau of Public Health
18 Commissioner's Office, the Harrison-Clarksburg Health
19 Department, the Center for Disease Control and Prevention,
20 or CDC, the ATSDR, the EPA and as well as HUD Region
21 Three. Next slide, please.

22 Incompletes. Blood lead reporting from healthcare
23 providers was one of our challenges, as well as low levels
24 of testing within the Medicaid population. We have had
25 our -- our legislative rule changed that requires

1 mandatory testing for all children, regardless of
2 insurance, at ages 12 and 24 months, as well as before
3 six, if not previously tested. We also have had delays in
4 data reporting due to our data system uploads and data
5 cleaning issues with the health program, low concern level
6 or awareness of lead risk to children and the importance
7 of the blood lead level testing, lack of resources for
8 community members to access residential lead mitigation
9 and or remediation. Next slide, please.

10 This is just a slide of our screening rates from 2016
11 to 2021. It looks to be that it's just fluctuating
12 between that 18.5 percent and 26 percent. Next slide,
13 please.

14 This slide is a breakdown of the number of tests on
15 children less than 72 months in both Harrison County and
16 the city of Clarksburg, alone. The first two columns are
17 for a number of tests in Harrison County. The total
18 number of tests means that all tests were counted for an
19 individual child and some children, you know, had two to
20 three tests for that time period. The unique children
21 tested in Harrison County is counted as one test per child
22 ID so each child is counted as one in those number of
23 tests. The columns are broken up into two time periods,
24 counting the number of tests for all of 2021 or from
25 July 1st to December 31st of 2021. The reason we did this

1 was to determine if the rates of testing had increased for
2 the second part of the year, when the elevated blood lead
3 levels were discovered. The blood lead levels themselves
4 are divided up into two ranges. The 3.5 micrograms per
5 deciliter, you know, the current level of concern, as
6 well, and above. Then the second was the 5.0 micrograms
7 per deciliter and above, which was the previous reference
8 level. The same data was analyzed for the city of
9 Clarksburg, alone. Next slide, please.

10 The ATSDR and EPA have played an integral role toward
11 creating awareness to the Clarksburg community concerning
12 the importance of lead level testing and flushing of the
13 water lines. Infographics were created and disseminated
14 to over 4,500 families. The Clarksburg-Harrison County
15 Health Department and our West Virginia Childhood Lead
16 Poisoning Prevention Program coordinated with the Harrison
17 County School System and Unicare to provide several lead
18 testing events. The West Virginia Childhood Lead
19 Poisoning Prevention Program participated in several
20 outreach events to provide education and conducted a focus
21 group at a local church in the Clarksburg community. Next
22 slide.

23 This slide shows the different testing events that we
24 had done in Clarksburg specifically. One done at the
25 Harrison-Clarksburg Health Department. There were a total

1 of 16 individuals tested, one of which was a teenager.
2 The other -- well it should be 15 were adults, there were
3 no positives for that particular testing event. North
4 View Elementary School had a total of 35 tested. Of
5 those, 19 were adults, three were teenagers, seven, excuse
6 me, nine were less than 12 years and then our target
7 audience of less than six years, there were four
8 individuals. We actually had a total of nine positives
9 for North View.

10 Nutter Fort Elementary School, there were a total of
11 14 tested with zero positive results. Adamston Elementary
12 there's a total of 12 tested. Again, there were zero
13 positive results. We had a Repack the Backpack at the
14 Meadowbrook Mall in Bridgeport with a very nice number of
15 44 tested. Of that 44, 12 were adults, five were
16 teenagers, 14 were less than 12, and we had 13 kiddos in
17 our target audience of less than six. Of those we had six
18 positive results and those were three families of two
19 children. The Clarksburg-Harrison County Health
20 Department is doing ongoing capillary testing by
21 appointment or walk in. Next slide, please.

22 Addressing challenges of low concern and low lead --
23 low screening rates through collaborative learning.
24 Michigan Childhood Lead Poisoning Prevention Program
25 shared their experiences through the Flint Registry water

1 crisis and offered insights on the best practices and
2 resources, which will include coordinating with state
3 Medicaid managed care organizations to incentivize
4 testing, creating a state response plan, building trust
5 within the community, engaging the faith-based communities
6 and finding strong community advocates. Next slide,
7 please.

8 So addressing challenges of low screening rates
9 through collaborative learning. The Wisconsin Childhood
10 Lead Poisoning Prevention Program also shared the sample
11 provider report card packet they send to providers and
12 discussed how they were able to obtain the information
13 through their data sharing agreement with the Medicaid
14 program in their state, and future meetings to be -- are
15 going to be scheduled to discuss -- discuss how they
16 obtain funding to provide testing at WIC offices. Next
17 slide.

18 Addressing challenges of low screening rates,
19 April 4th of '22, the Childhood Lead Screening Rule 64-42,
20 again, was amended to update the blood lead reference
21 value and require a universal testing for all children,
22 again that 12 to 24 months, as well as before six, if not
23 previously tested. Collaborate with the Bureau of Medical
24 Services to collect data and establish a process for
25 creating the provider report card, as well as

1 collaborating with the Health Check program to perform an
2 audit of Medicaid providers with additional academic
3 detailing. Next slide, please.

4 Provider Education Opportunities. Villanova's
5 University Mid-Atlantic Center for Children's Health and
6 Environment, or MACCHE, one of the ten Pediatric
7 Environmental Health Specialty Units, or PEHSU, in the
8 country, funded by the ATSDR and in part by the EPA,
9 provides education to families and providers about
10 children and environmental hazards. Using the ECHO model,
11 MACCHE is creating podcasts to educate nurses and
12 providers in West Virginia about the harms of lead
13 exposure. And coordination in progress to hold an
14 education session at West Virginia University United
15 Hospital Center. Next slide, please.

16 We have several community partnerships, Prevention
17 Solutions, which is the former Harrison County Family
18 Resource Network which disseminated fliers to partners
19 within Harrison County. Legal Aid created a flyer and
20 disseminated to families within Clarksburg. A partnership
21 of American African churches provided a list of African
22 American churches and we were able to hold a focus group
23 at the Immaculate Conception Catholic Church. The Dunbar
24 School Foundation STOP Program works with the African
25 American community to increase vaccinations for children

1 and COVID-19 vaccines. They also work with Pastoral
2 Leadership of West Virginia to help gain trust of the
3 community. There is a history of lack of trust within the
4 -- with the Clarksburg Water Board and upset -- they're
5 upset about the 30,000 new lines that have been brought
6 into the area. Next slide.

7 The West Virginia Childhood Lead Poisoning Prevention
8 Program and the Office of Environmental Health Services in
9 HUD Region Three are working for finding an agency that
10 has a capacity to apply for the Healthy Homes and Lead
11 Hazard Control Grant. The West Virginia Childhood Lead
12 Poisoning Prevention Program and OEHS have not been able
13 to apply for that grant. At present, the Childhood Lead
14 Poisoning Prevention Program does not have the capacity to
15 maintain the grant, and OEHS cannot apply due to conflicts
16 of interest, since they actually licensed the contractors
17 that would bid for the contracts. Next slide, please.

18 Any questions?

19 **MR. AMMON:** I appreciate that presentation, and this
20 is Matt. I was going to ask you about remediation efforts
21 related to lead paint and now I kind of see the answer
22 that you -- you didn't -- do that which is a shame, you
23 know, I -- I, you know, I'm thinking about other sources
24 of funding even beyond ours. Even -- even if it's not a
25 lead hazard control grant which I still encourage you to

1 apply is, you know, our community development block grant
2 money, you know, you could use for lead remediation, you
3 know, things of that nature, other sources of funding in
4 the state, so you can both attack the issues related to
5 water and in the home environment related to paint, you
6 know, soil, dust, you know, things of that nature. Is
7 there --

8 **MR. ICE:** There is ongoing talks currently in the
9 works with West -- with the West Virginia Department of
10 Health and Human Resources and one of our other agencies
11 within the state for possibly for them to go after the
12 grant and that way they're -- they're really good at doing
13 grant work. They've done other weatherization grants and
14 such and for us to, since we do the licensing, and we do
15 the inspections, for us to then do all that part of the
16 education and get the contractors to apply for it.

17 **MR. AMMON:** You understand we -- we can help you out.
18 You can just reach out to me and we'll work with you, but
19 let me turn it over to Paul, who has a question.

20 **DR. ALLWOOD:** Thank you, Matt. And thank you, Paul
21 and Cori, for a very informative, very, very informative
22 presentation. I really appreciate all of the work and the
23 leadership that -- that you and your departments have --
24 have shown and also, you know, very impressed by the, you
25 know, the very broad collaboration that -- that you were

1 able to organize in response to the situation. Cori, one
2 of your slides on the schools' testing, it seemed like one
3 school kind of stood out, you know, for having, you know,
4 blood lead levels in children. Is there any -- anything
5 that we know at this point that might explain, you know,
6 that -- that kind of different result from the other
7 schools?

8 **MS. ICE:** Other than -- Paul may be able to better
9 answer as far as Nutter Fort, I believe, is the school in
10 which you're referring that have the -- let me double
11 check.

12 **DR. ALLWOOD:** Yeah. Maybe if you put your slide back
13 up that showed the --

14 **MS. ICE:** You can. It was, well, Number 22 on our
15 slide, yes, there we go. So it was actually North View
16 Elementary --

17 **DR. ALLWOOD:** Correct.

18 **MS. ICE:** -- that had a lot of the elevated.

19 **MR. ICE:** There's not -- the entire area of
20 Clarksburg is all older schools and older communities; it
21 may have just been that this particular school had the
22 right amount of children that tested it. There's no
23 correlation that we could come up with on why this
24 particular school had more positives than the other
25 schools. The one in Nutter Fort, maybe it's a little

1 newer area of the county/city there. North View is a
2 little older, but I know Adamston Elementary School is
3 also in an older neighborhood, as well. But we can't
4 understand -- we don't know why it was we got the six and
5 two there.

6 **DR. ALLWOOD:** Okay. Thank you.

7 **MR. AMMON:** All right. Thank you for that, Paul.
8 Let's see before we are scheduled to take our break in a
9 couple minutes, eight minutes, is there any other
10 follow-up comments, questions? I know it's good to see
11 that you all are working with the old Michigan contingent,
12 based on their experience and offering advice, definitely
13 help at the stage where you are and where they are,
14 obviously, bridging the gap, I think, is -- is key here
15 and making sure that you guys can learn from what other
16 people have gone through already and we can offer that to
17 you. Let's see, is there any other, again, questions or
18 comments from anyone?

19 **DR. ALLWOOD:** So Matt, I can just, you know, offer
20 another comment and -- and maybe Paul -- Paul Ice might
21 and Cori. I know Cori liked my comment -- comment on it,
22 but I -- I think it's my understanding that there was, you
23 know, some -- some level of -- of engagement with -- with
24 the state of Michigan and -- and perhaps even more
25 specifically with the Flint Registry folks. Is that -- is

1 that the case, Paul?

2 **MS. ICE:** Actually, I am not completely sure about
3 the status of those talks. That's something I can
4 certainly find out and let you know --

5 **DR. ALLWOOD:** Okay.

6 **MS. ICE:** -- how it's going.

7 **DR. ALLWOOD:** Yeah. And I think it's just fitting
8 that, you know, that we -- we have both, you know,
9 communities sharing today at the LEPAC, and, you know, I
10 hope that, you know, I'm -- out of this -- this, you know,
11 joint effort, there will be, you know, good opportunities
12 to engage in, you know, to learn from one another and to
13 share resources and ideas.

14 **MS. ICE:** Absolutely, their -- their presentation was
15 phenomenal so it was nice to see that and see exactly
16 where they are in the process and it's very encouraging.

17 **DR. ALLWOOD:** Thank you.

18 **MS. ICE:** Thanks.

19 **MR. AMMON:** Question from Jill.

20 **DR. RYER-POWDER:** Yeah. Just -- just a quick
21 question. So -- so you have the data from the three
22 homes, I was wondering if anyone ever looked at the
23 cumulative exposure for each of the homes because, you
24 know, you have the soil data, you have the water data, you
25 have the dust data and it doesn't -- it -- it wouldn't be

1 really difficult to try and look at, like, what -- just to
2 -- just to see what that cumulative exposure -- what the
3 expected blood lead level of anybody living there would
4 be?

5 **MR. ICE:** That has not been done. Unfortunately, I
6 am the only one who does enviro-lead assessments for the
7 state and my -- this -- the entire state of West Virginia
8 is my jurisdiction. Now, I honestly do not have the time
9 to do it and we currently are down an epi, so if that
10 would be what something that they would want to do, we
11 just don't have the resources to pull that kind of
12 information yet.

13 **MR. AMMON:** All right. Thanks. Is there -- just a
14 follow-up for me, is there additional testing that has
15 been done in terms of additional sampling after the
16 initial work that you had done in the three homes to see
17 -- doing any type of, you know, filtering in this -- in
18 the home or anything like that has made a difference?

19 **MR. ICE:** Not currently because, like I said, the --
20 the water test -- that the one of the homes, it was, I
21 believe, number two, that gentleman -- they actually
22 moved. And the house -- when all this first started, the
23 house was vacant so no one could get in the home. The
24 other two homes, we do in contact with when we do
25 follow-ups for children with elevated levels. So when we

1 do a follow-up down the road and ask how the child's
2 doing, they're -- they'll tell us they're using the water
3 filters. The water filters right now is about the only
4 way to take the lead out because the lead lines are still
5 there, they haven't got to remove them yet. So that --
6 that case the -- we're just looking at the child's levels
7 have dropped. So we're not going back and doing follow-up
8 tests. There are tests ongoing within the county itself
9 or within the city itself done by the water board, by our
10 Public Health Sanitary and Fire Engineer, so there are
11 other water tests being going on constantly, but not
12 specifically at those houses yet. If those parents would
13 call me up and say hey, would you come test my water
14 again, I would be more than happy to go up, but we just
15 haven't got a request for that.

16 **MR. AMMON:** Yeah. Understood. You know, it's been
17 our experience in dealing with public housing residents
18 that -- that providing additional filters on a regular
19 basis, and you know, showing them how to put them in
20 properly, you know, has -- has and can make a difference,
21 but it is, you know, due diligence just to make sure that
22 -- that they have them, that they're readily available and
23 that they're actually being used. So and it does -- it
24 does take, you know, on your end too to keep going out and
25 making sure that it's available, and you can -- you can

1 purchase it for them and then you're making sure that it's
2 installed properly.

3 **MR. ICE:** Right. And so the purchasing of the
4 filters is done by the Clarksburg Water Board so they're
5 the ones going -- the actual purchasing of these filters
6 for the homes.

7 **MR. AMMON:** Yeah. Good. And we turn it back, Paul,
8 you have additional follow-up?

9 **DR. ALLWOOD:** Yes. Just a quick follow-up on
10 something that you presented, Paul Ice. The one home that
11 had a take-home lead exposure situation I, you know, I
12 found it really interesting in these, you know, homes
13 built in 1920. And this worker, the -- there was a person
14 living in that home that was in the construction industry.
15 Has there been any opportunities to engage with
16 construction companies or maybe even hardware businesses
17 in the area to, you know, raise awareness about the
18 potential for lead exposure in the community?

19 **MR. ICE:** So we are constantly doing outreach to
20 different contractors. We -- because of Clarksburg
21 specific I've sent out letters to all the contractors
22 within the county that are licensed and actually went so
23 far as do some of the touching counties, you know, the
24 neighboring counties with them. So they've all gotten
25 letters. They've all gotten letters from me in the past.

1 I do this across the state. I'll send letters to
2 contractors dealing with lead issues. We do work certain
3 events, outreach events, we had a -- it's called a
4 construction expo so I -- we did have an informational
5 booth there, talking to construction companies. So it is
6 ongoing. Sometimes these companies are small, you know,
7 you try to get ahold of the company, you know, of five
8 people; some of them are large, so it is -- it's an
9 ongoing thing for us to constantly talk to these
10 businesses and contractors.

11 **DR. ALLWOOD:** Thank you.

12 **MR. AMMON:** I -- I -- this is Matt. And -- and we're
13 up on -- almost up on a break, I would say keep following
14 up with them because when you -- when you do eventually
15 get your lead grant, you want to make sure that you have
16 the right capacity to be able to do the work in the homes
17 so --

18 **MR. ICE:** Yes. With -- if we eventually get the lead
19 grant, so we actually, my office, actually license the
20 contractors to do lead work. If it's an RRP issue, of
21 course, we do not license them. We're not an RRP state,
22 but we will make sure that people within the area and
23 local contractors are up on their RRP, as well. That is
24 one thing we also stress is RRP, if you're -- if you're
25 not doing an abatement, if you're working in these homes,

1 RRP training.

2 **MR. AMMON:** Yeah. Yeah. That's good, that's good.
3 Well, I appreciate your presentation, good luck and again
4 we are here to help, and with that we are up on a break,
5 and we will see everyone back at 11:15.

6 (Break, 11:00 till 11:15 a.m.)

7 **MR. AMMON:** Hello everyone, welcome back. I think it
8 goes without saying that we all get pretty excited when we
9 see very positive things regarding funding for our work
10 come out of Congress and this -- this is a big one, you
11 know, this is related to the bipartisan infrastructure law
12 for lead pipe replacement that will go to states and
13 tribes and territories and several billion dollars for
14 that effort. And so, that is a very, very good thing and
15 we're going to hear now from EPA regarding that work.

16 **CURRENT INFRASTRUCTURE INITIATIVES RELATED TO LEAD**

17 **DR. MCLAIN:** Hi everyone. I'm Jennifer McLain. I'm
18 the Director of the Office of Ground Water and Drinking
19 Water at EPA. And I am going to talk to you as Matt just
20 introduced about some of the infrastructure work we have
21 related to -- to lead in -- in drinking water. I wanted
22 to start out since we're from a diverse set of backgrounds
23 just a little bit about what EPA does under the Safe
24 Drinking Water Act. We are responsible for public health
25 protection through safe drinking water programs. Those

1 include setting national drinking water standards. We
2 partner with states, many of whom have responsibilities
3 called of -- privacy and privacy and the regulated
4 community to ensure the regulatory compliance so the
5 states have that oversight responsibility and EPA oversees
6 -- oversees that state responsibility.

7 And then we have funding investments and drinking
8 water infrastructure such as I'll be talking about today
9 related to lead, specifically; the biggest programs are
10 the drinking water state revolving fund program. We also
11 have a number of grant programs and we also have -- we
12 also work across the opposite water to implement the Water
13 Infrastructure for Improvements Act, which is the WIFIA,
14 which is another infrastructure financing program. And we
15 have responsibilities that are not related to this topic
16 of lead today, such as resiliency of our nation's water
17 infrastructure and underground injection control.

18 There are 152,000 U.S. public water systems; that's a
19 lot of systems across the U.S. And we have over 50 --
20 about 50,000 of those are community water systems. Those
21 are the ones you typically think of when you think about a
22 water system where you have a town, they deliver water to
23 the town, that's a community water system. But a lot of
24 these are very small. About -- about 27,000 of them serve
25 fewer than 500 people, and some of them can serve as few

1 as 25 people. So this might even -- might be something
2 like a -- a mobile home park or other small community that
3 receives drinking water from the -- from the system.

4 Okay. So the Bipartisan Infrastructure Law that Matt
5 was talking about provided EPA with over \$25 billion for
6 safe drinking water, which is really exciting. Fifteen
7 billion of that is for lead service line replacement under
8 the Drinking Water State Revolving Fund Program. We also
9 have received another \$11.7 billion under the Drinking
10 Water State Revolving Fund for any projects that are
11 eligible for that program which include lead reduction
12 projects, including lead service line replacement and
13 other improvements to infrastructure to reduce lead in
14 drinking water. There are a couple other pots of money
15 associated with emerging contaminants and drinking water
16 that we're also implementing under the Bipartisan
17 Infrastructure Law.

18 So just a little bit about what the State Revolving
19 Fund Program is in case you're not familiar with it. The
20 State Revolving Fund Program is a federal, state
21 partnership that is designed to create in each state a
22 perpetual source of financing for drinking water and then
23 there's also waste -- a similar wastewater program for the
24 infrastructure for drinking water and wastewater across
25 the country.

1 The mission of this program is really to reduce the
2 costs related to these critical public health and
3 environmental infrastructure. And it works to combine
4 both federal and state funds to provide this low cost
5 financing to -- to these utilities. It's implemented and
6 operated through the state, so what EPA -- with this
7 infrastructure money that we receive from Congress, we
8 provide grants under specific terms to the states and we
9 oversee the implementation, but the states are the ones
10 implementing the programs and they have flexibility in
11 terms of decision making and also have the funds for doing
12 things like providing assistance to utilities, as they
13 implement the program.

14 There are special financing terms for disadvantaged
15 communities to address equity and affordability. And this
16 is something I'll be talking about a little bit more as,
17 as EPA's looks to our goals in implementing the Bipartisan
18 Infrastructure Law. So our key priorities in that
19 implementation are first of all to provide flexibility to
20 meet local water needs. So this is, as I just mentioned,
21 a key principle under this, the revolving fund program to
22 provide states and borrowers the flexibility to address
23 local water challenges. We also want to make sure that we
24 are increasing investment in underserved communities. An
25 exciting thing about the Bipartisan Infrastructure Law is

1 that in those general supplemental funds that I was
2 mentioning we are -- the Congress directed 49 percent of
3 those funds to be used for disadvantaged communities, and
4 this, of course, is something that can make a real
5 difference in those communities that need it most, and
6 we're working with states to make sure that we -- this is
7 implemented to -- to its fullest extent.

8 We also want to make sure that these funds are used
9 to make rapid progress on lead service line replacement to
10 really maximize that \$15 billion that's dedicated to lead
11 service line removal. We want to make sure that that is
12 used as well as those other funds to make significant
13 progress towards President Biden's goal of removal of 100
14 percent of lead service lines across the nation. We're
15 also looking to address those emerging contaminants that I
16 mentioned, such as per- and polyfluoroalkyl substances and
17 other emerging contaminants. And we're also looking to
18 make sure that we are prioritizing the resilience of our
19 infrastructure.

20 So a little bit more about the -- the drinking water
21 funds that we're -- that we're receiving under the State
22 Revolving Fund. As I mentioned we have 11.7 dollar -- \$11
23 billion under the general supplemental fund. So anything
24 that's eligible as the Drinking Water State Revolving Fund
25 Project is eligible for potential project in this -- under

1 this provision, and so that includes projects such as
2 projects to support corrosion control, lead service line
3 removal, inventory development for lead service lines. As
4 I said 49 percent of this grant has to be provided as
5 what's called an additional subsidy to the community.
6 That means that they are getting something, like, they are
7 getting principal forgiveness or they're getting a grant
8 and the communities that receive those -- that -- that
9 subsidy, are only communities that meet the state's
10 disadvantaged community criteria. So the state has to
11 first lay out what is a disadvantaged community,
12 according to specific criteria under the law, and they
13 must -- they must use 49 percent of this grant has to go
14 as subsidies to those communities. So this is a really
15 exciting feature about the bill that so much of the
16 funding is focused on those communities that need it most.

17 For the drinking -- for the lead service line
18 replacement supplemental, one -- one exciting thing about
19 this bucket of money, 15 billions of dollars, is that
20 there's no state match required. Under the general, there
21 are monies that the state has to contribute in order to
22 receive the funds, but for the drinking water, State
23 Revolving Fund lead service line replacement, there's no
24 state match required and funds are eligible for replacing
25 lead service lines and any of the associated activities

1 that are directly connected with that. So a community
2 going out and understanding, like, where are the lead
3 service lines, how do we plan the removal of the lead
4 service lines, like the design of the project, the
5 prioritization of certain component -- certain parts of
6 their community for removal first, all of those types --
7 all of those components of a project are eligible for the
8 use of those funds and that's exactly what these
9 communities need who need to remove their lead service
10 lines.

11 So 49 percent of this grant goes to those
12 disadvantaged communities also. So the lead service line
13 inventories is one thing that we think will happen often
14 in many states and many communities will be the first
15 thing that that community is looking to use the monies
16 for. There are some states that have made significant
17 progress on developing inventories, but in many states
18 across the country communities do not have an inventory of
19 their lead service lines. And this is a project that is
20 eligible under these funds and it's also eligible for --
21 for support the -- the state can also support communities
22 in doing those inventories and the federal government can
23 too, and that -- and that's what we plan to do.

24 One significant factor that we want to make sure that
25 every project -- every project includes the replacement of

1 a lead service line for the entire lead service line. So
2 not just a portion, unless there's only a portion left in
3 the ground at this point. There will be no projects that
4 are funded under the bill that are only a partial lead
5 service line, it must be the full lead service line. And
6 EPA is really encouraging states to fund the private
7 portion of that -- of that lead service line replacement
8 at no additional cost to the homeowners to address the
9 real affordability concerns that exist with lead service
10 line replacement.

11 We plan to support these funds with significant
12 technical assistance to both states and communities to
13 really reach those disadvantaged communities, and one of
14 the programs for technical assistance that EPA's putting
15 together is focused on the lead service line removal. So
16 assisting communities with the identification, the
17 development of the inventory and the replacement from the
18 beginning of the project all the way to the end. We want
19 to make sure that the communities that need it most, have
20 the assistance in order to put the project together to
21 apply for the State Revolving Funds from their -- within
22 their state program and to be successful in that and to
23 implement the -- implement a funded project.

24 I wanted to mention a couple other grant programs
25 that are not funded under the bill, but that are related

1 to the work -- are related to the lead infrastructure work
2 that EPA has received separate appropriations from
3 Congress on. So these are under the Water Infrastructure
4 Improvements for the Nation Act. There are three large
5 grant programs that EPA runs, all of which can be used to
6 assist in lead reduction infrastructure projects. One of
7 those is the Small Underserved and Disadvantaged Community
8 Grant Program that's -- that is -- those are grants that
9 are to assist communities that lack adequate drinking
10 water or that have issues with Safe Drinking Water Act
11 standards and not -- not complying with them.

12 These -- these are grants that go to disadvantaged
13 communities, again, based on those state -- that state's
14 definitions and they can include projects such as the
15 corrosion control and lead service line replacement. We
16 also have a grant that is specific to reducing lead, it's
17 called the Reduction in Lead via Drinking Water Exposure
18 Grant. And that's a competitive grant where EPA issues an
19 RFA and the focus of that grant is to reduce lead in
20 drinking water in disadvantaged communities and also in
21 schools and child care so we -- communities can do things
22 such as replacing drinking water fountains or fixtures at
23 schools and childcares that have lead components, as well
24 as replacing lead service lines in those communities.

25 And then we have a program for lead testings for

1 schools and childcare facilities where these are
2 non-competitive grants that are issued to states and
3 territories and tribal consortia to assist with drinking
4 water lead testing. A couple of other initiatives, I
5 thought I would mention, since they are related to the
6 topic here is what EPA is doing with respect to our
7 standards for lead.

8 So in January of 2021, EPA promulgated the Lead and
9 Copper Rule revisions and in December of 2021, we
10 announced the conclusion of the review that we have done
11 for that rule and we announced that we'll be developing a
12 new proposed rulemaking for Lead and Copper Rule
13 improvements prior to the compliance deadline for the Lead
14 and Copper Rule revisions, which is in October of 2024.
15 We are looking to strengthen key elements of the rule with
16 a focus on equitably protecting public health so the --
17 the elements that were focused on are replacing all lead
18 service lines as quickly as is feasible, strengthening tap
19 sampling requirements and exploring options to reduce the
20 complexity and -- associated with the action level and
21 trigger level, which are part of the rule.

22 So that first item, the replacement of all lead
23 service lines as quickly as feasible. Clearly, you can
24 see the match between the regulatory initiative that we're
25 working on and the infrastructure funds that we have on

1 hand to work with the states. So we're very excited about
2 having the funds available to support this work that we're
3 going to be working on in the -- in the rule development.

4 We also want to make sure that when we're doing this
5 rulemaking that we're approaching prioritizing
6 historically underserved communities and exploring how to
7 replace lead service lines to prioritize these -- these
8 communities and this work again is being done, both under
9 the work that we're doing for the funding program, as well
10 as to support the regulatory effort.

11 We are looking to publish guidance on lead service
12 line inventories in the very near future. This will
13 include best practices case studies and templates and will
14 support water systems as they look to develop a -- an
15 initial lead service line -- lead service line inventory
16 for their community, which is required under the Lead and
17 Copper Rule revisions and that compliance date is October
18 of 2024. They will be able, if their project is
19 successfully funded by their state, they will -- could be
20 using Drinking Water State Revolving Funds to complete
21 that inventory and, as I mentioned, EPA and the states are
22 working to provide assistance to communities who are --
23 want to perform -- preparing an inventory, both for the
24 purposes of the funding and as well as for the compliance
25 with the regulation.

1 We really think that these -- we're focused so much
2 on the inventories because of course identifying where the
3 lead service lines are, are integral to lead reduction
4 efforts. And it really provides that critical information
5 of the locations of where someone could be exposed to high
6 drinking water lead exposure. So it will help both in
7 identifying sample locations, as well as planning for
8 those replacements and receiving and getting funds to
9 support projects supported by the Bipartisan
10 Infrastructure Law.

11 So there are a number of other actions that I'm not
12 going to get into too much here that, but that are related
13 to our work to reduce lead and drinking water. So one of
14 those that is our School and Childcare Lead in Drinking
15 Water Program I mentioned the -- the funding that we have
16 to support lead testing in schools and also lead
17 remediation in school and we also partner with CDC and
18 other partners to -- to remediate and -- and under --
19 better understand and support schools and childcare
20 facilities as they look to reduce lead exposure in their
21 -- in their communities. And we also provide technical
22 assistance to communities that have drinking -- high
23 drinking water levels so that they can understand to that
24 -- to operate their water systems and to understand where
25 their lead service lines are and we're always working to

1 improve our risk communication tools associated with lead
2 exposure in drinking water. We do a lot of that in
3 collaboration with the CDC. And lastly, I'll just point
4 out about one -- one component of that is, as I mentioned
5 earlier, associated with the funding is to always be
6 encouraging and doing everything we can to make
7 communities understand how important it is to replace the
8 full lead service line when they're doing these lead
9 service line removal projects and to not leave a partial
10 lead service line connected to the home so that the --
11 those -- those -- those folks in the home are as protected
12 as possible from lead in drinking water.

13 So that's all I have for you today. It was fun and
14 say thank you to CDC for inviting me here as I went
15 through all of those programs that we're working on. I do
16 want to note that we work really closely with CDC and we
17 appreciate their partnership in all aspects of the work we
18 do associated with lead in drinking water, and we are
19 hoping in that partnership to make this significant
20 progress in lead service line removal across the country
21 and in reducing lead in drinking water. Thank you very
22 much for inviting me to your meeting today.

23 **MR. AMMON:** Thanks, Jennifer. We all echo that
24 sentiment that this is a big work, great work, you know,
25 we're really expecting great outcomes and making huge

1 difference in communities related to lead in water. Let
2 -- let me first open it up just to see if anybody has
3 initial questions. It won't be any surprise, I have a
4 couple, but I will wait -- I will wait to see if anybody
5 has, excuse me, any additional initial thoughts or
6 comments. So I'm not seeing any, let me -- let me ask you
7 kind of a two-parter, if you will. So the 49 percent to
8 disadvantaged communities, you know, I think -- I think
9 that's a big you know big plus, you know, to have that as
10 a requirement. And, you know, one of the things that I'm
11 hoping that you all will encourage and we can kind of
12 figure out together how this dynamic works on is the
13 inventory development.

14 So obviously you're looking at the inventory
15 development to figure out where to go, right? But there's
16 one thing that I'm hoping is added to that and that is
17 prioritization for not only communities, but all those
18 street level properties that either are public housing or
19 -- or project-based Section 8, right? Those two are
20 naturally fit within your prioritization I'm hoping, that
21 giving guidance to states to say as you develop your
22 inventories you'd be mindful that we already have a
23 population that is perfectly, you know, perfectly within
24 the frame work of this work, related to disadvantaged
25 communities and -- and population, you know, whether it's

1 a federal poverty level or -- or area median income,
2 sorry, using our, again, I can tell you exactly where all
3 of our public housing agencies are, where our properties
4 are, where our Section 8 multifamily properties are. And
5 I'm -- I'm hoping that is included as part of this
6 inventory development prioritization.

7 **DR. MCLAIN:** Yeah. Thanks, Matt, for the -- for the
8 question. First of all, just definitely agree on how
9 exciting it is to have the 49 percent for disadvantaged
10 communities. I didn't get into like the nuts and bolts of
11 exactly how the SRF program works in the level of detail
12 of the disadvantaged communities, but I'll just add a
13 little bit more on that with respect to the question that
14 you asked. So the disadvantaged communities, the state
15 does define disadvantaged communities and EPA in our
16 implementation memo to the states a couple months ago,
17 provided guidance to the states on how they can look at
18 their disadvantaged communities definition to really make
19 sure that those underserved communities are receiving
20 these subsidies and one of the -- one of the points that
21 we made in that guidance was exactly the point that you're
22 making. Sometimes it's a portion of the community where
23 that is the, you know, the, the underserved community --
24 the underserved community is within a larger community.
25 And we provided some guidance on how they can look at the

1 criteria that are under the act of how they, you know,
2 what -- that they use to define disadvantaged communities
3 as well as looking at these sections within their
4 communities that are underserved. Such as you -- as you
5 mentioned that there -- there may be some places where
6 there are Section 8 housing. So a state could -- could
7 look at those kinds of -- that kind of information as
8 they're examining their definition for disadvantaged
9 communities. And we do know that there are a couple
10 states that are currently really digging into their -- the
11 way they define disadvantaged communities and looking to
12 how they can improve that definition. And we're -- we're
13 going to be continuing to support that, as well as
14 providing guidance on best, you know, best practices for
15 lead service line removal.

16 So both of those two things can go together and they
17 don't necessarily -- they aren't -- they aren't mutually
18 exclusive, but they can also -- you can also have a
19 program that has projects that support lead service line
20 removal with prioritization of those outside of that --
21 the definition of the disadvantaged communities. So they
22 -- they can really be complementary to each other.

23 **MR. AMMON:** Good. I appreciate that. I'll deflect
24 my second question. I'll turn it over to Paul, just
25 making one follow-up that -- so we're here to work with

1 you and making sure that that information gets to the
2 states in terms of the coordination of the actual
3 addresses and it goes without saying that your
4 administrator and my secretary are very interested in
5 making sure that happens.

6 **DR. MCLAIN:** Absolutely, as we are.

7 **DR. ALLWOOD:** Thank you, Matt. And thank you so
8 much, Dr. McLain. It's, you know, very informative
9 presentation. You know, in a former role, I -- I had some
10 responsibilities for state drinking -- for statewide
11 drinking water program and, you know, I could really
12 resonate with your -- the point you made about, you know,
13 vast majority of our public water systems being non-
14 community systems, including those, you know, very small
15 systems that serve small numbers of people.

16 And I just wonder as you're talking about the -- the
17 Bipartisan Infrastructure Law and the funds that it has
18 made available, are there any thoughts about how we might
19 effectively, you know, reach some of those smaller, you
20 know, drinking water systems and ensure that they are, you
21 know, fully positioned to take advantage of -- of some of
22 these funding opportunities?

23 **DR. MCLAIN:** So thank you, Paul, for that question.
24 So there are a couple things that we're doing. First of
25 all, you mentioned non-community water systems. So there

1 are some non-community water systems that are eligible for
2 the drinking water funds and the -- and the grant funds,
3 as well as some of the community water systems. So we're
4 looking to support those really small systems in the
5 technical assistance program that I mentioned. So both
6 the states and -- and EPA have funds to help stand up
7 these programs for providing technical assistance to
8 communities that are looking to develop projects to submit
9 to their SRF programs for -- for approval and -- and for
10 funding.

11 There are a lot of communities that need this kind of
12 support that have never tried to go through the process of
13 applying for one of, you know, for finance -- financing
14 from their state. So they really do need that -- that
15 help and understanding. How does the program work and --
16 and -- and actually, like, putting together the project
17 proposal and designing the project that they have. So we
18 definitely see that as being one of the needs for the
19 assistance program that I mentioned, and the gap we need
20 to fill.

21 **MR. AMMON:** Thank you, Paul. And we have a question
22 from Jamie.

23 **MR. MACK:** Actually if it's okay, I just wanted to
24 add kind of the state perspective to what some of what
25 Jennifer was saying, because the SRF program that she's

1 referring to here in Delaware is also part of my
2 responsibility here at -- at public health. And just like
3 Jennifer mentioned, we're working directly with some of
4 our smaller utilities. Right now it's simple outreach
5 trying to make them aware, but we are looking at how we
6 can best support them, both through, you know, technical
7 and design processes, as well as the simple financial
8 completing grant paperwork, you know, just making sure
9 that we remove every barrier that we can between them and
10 the funding because they are some of the most vulnerable.
11 So I just wanted to add the state perspective to -- to
12 what Jennifer said as well and thank her for everything
13 that EPA is doing.

14 **DR. MCLAIN:** Thank you, Jamie. I appreciate that
15 work that you all are doing; that sounds great.

16 **MR. AMMON:** Yeah. And I would -- I would echo that,
17 you know, in -- in listening to many states and localities
18 around the country, a lot of them need help in terms of,
19 well now what do I do, right? I mean, there's just so
20 much out there that is direct assistance now, not
21 necessarily just going to the states, but the other
22 sources of funding like the American Rescue Plan where,
23 you know, states really help -- need to help me with
24 navigating all of the funding and how do I -- how do I
25 access that? Well, what do I need to do? And so the fact

1 that you are thinking about that, and, you know, Jamie
2 echoed that that this is something that is really critical
3 to succeeding and what outcomes we're looking for, but --
4 but it all starts with, you know, this isn't a
5 formula-based program where you automatically get it, you
6 -- have to ask for it. So I think that's something for
7 hard for -- hard to get the states who haven't done it
8 before or even other localities to, you know, get the
9 right capacity up to be able to do it. So Perri, you have
10 a question?

11 **DR. RUCKART:** Yes. Thanks for your presentation,
12 Jennifer. I have a question, I apologize if I missed
13 this, but did you indicate when these funding
14 opportunities were going to become available or have they
15 already been published?

16 **DR. MCLAIN:** Yeah. Thanks, Perri, for the question.
17 It does a little -- it depends -- it really depends on the
18 state that you're -- at this point it kind of depends on
19 the state that you're -- that the community is in. EPA
20 has provided the states, as I mentioned, with -- with the
21 implementation memos for this first year of funding. So
22 the funding goes over five years and with for the first
23 year of funding, states have the implementation memos and
24 then what the states have to do is put together their
25 what's called their -- their plan and their priorities for

1 the use of the funds and they submit that to EPA. And we
2 review -- review the submission and then upon approval,
3 provide the grant that -- the monies to support that plan.
4 And then the state will be working with each one of the
5 communities to put the loan agreement together so it
6 really gets down to, first it -- to what the -- where the
7 state is in the process and where then the -- each one of
8 the communities is in the process, but our -- our desire
9 is to, you know, we're working closely with the states and
10 we all -- we all want to have the money go to those
11 communities as quickly as -- as -- as it's feasible. So
12 we're kind of right in -- right in the beginning of this
13 process right now of -- of the money flow and I don't know
14 if Jamie has anything to add to that, but...

15 **MR. MACK:** Yeah. I can just add that Delaware has
16 already done what we call our bid solicitation, which is
17 the first step for us to develop the intended use plan and
18 the project party list that Jennifer mentioned. We got a
19 massive amount of applications and funding requests
20 compared to what we did previously so it's obvious the
21 word is out. But, yeah, we're as a state already moving
22 through the process that Jennifer is talking about, we
23 have all of our applications at this point, we're
24 preparing them to submit back to EPA for approval to
25 continue the process. So I don't know that we have a

1 defined timeline yet, but we're hoping, you know, before
2 the end of the year, to be able to start seeing some of
3 the money flow out.

4 **DR. RUCKART:** Thanks. I have a follow-up question.
5 Do you have suggested floor and ceiling limits so the
6 states can get an idea of how many projects they should be
7 funding or is that all up to the states?

8 **DR. MCLAIN:** Well, it depends on those -- the -- as
9 Jamie was talking about, the -- the solicitation that they
10 do and the projects they get -- they get in and then the
11 state, like, ranks those with their -- with their
12 priorities so it really goes upon the -- it's a very
13 state-by-state and priority by part of -- priority and --
14 and on those projects that the communities submit. So
15 there are -- there's no defined floor or ceiling or -- or
16 guidance on that and it will be varied depending on the --
17 the state.

18 **MR. MACK:** Yeah. And I can just add that we've seen
19 projects from, you know, 100,000 or in that range up to
20 the -- I think our biggest ones right now are in the 50 to
21 75 million dollar range.

22 **MR. AMMON:** It's great to hear that, you know, all
23 this isn't really, this is not theoretical. We have
24 actually people in the process right now of doing this,
25 and I think that's a good thing to see is that the

1 continuum of, you know, where we are now agency-wise in
2 terms of plans and -- and things of that nature, but then
3 actually having somebody implement it, I think it's great
4 to hear that. And I have kind of a follow-up for probably
5 the both of you. I know that the law requires full
6 service line removal, right? So the main to street and
7 then street to property and then the -- the funding on the
8 infrastructure side is just from -- from the main to
9 street, correct? Not from street to property and I'm --
10 and my question is regarding the street to property. And
11 you had mentioned, I believe, some type of grants or other
12 things, or loans to be able to help do that, and, you
13 know, my -- my regular job thinking of the assisted
14 property stock, right? And -- and knowing if -- if you
15 have assistance on the property, would you be eligible to
16 receive other grants and things of that nature given that
17 we don't really have the capital reserves available to be
18 able to take on that work on both the public housing side
19 and the Section 8, project-based side.

20 **DR. MCLAIN:** So first I'll say I'm -- I'm not quite
21 sure I followed your street to housing, housing to street.
22 So let me -- let me start with sort of, like, the -- the
23 basic and then you can let me know if I've answered your
24 question. So I should have mentioned this earlier because
25 I just kind of jumped into a discussion of full and

1 partial lead service lines which I know some of you are
2 familiar with and some of you may not be. But a lead
3 service line to a home is the -- the entire line that goes
4 from the main, traditionally, you think what goes
5 underneath the street all the way into your house that
6 goes then -- then the water comes into your home -- your
7 home's plumbing. So in that service line sometimes that
8 service line is split up into one section that, basically,
9 is owned by the utility that's often the section -- the
10 section of the line that's between the main and the meter.
11 And then there's often the second half is owned by the
12 property owner so between the meter and the home is
13 considered to be part of the house. So there have been
14 some -- some locations where utilities have supported a,
15 you know, from the utility project perspective, only the
16 removal up to that water main and what we're saying is if
17 you're going to be using funds from the State Revolving
18 Fund, you must replace the entire lead service line at
19 that project, because we know from studies that if you
20 replace just part of that lead service line, you can
21 really increase the exposure to the people in the home
22 from lead by having that -- a disruption to the service
23 line happen and then leave half of a lead service line in
24 place that can be very dangerous for the people who are
25 living there.

1 So we want to see is the whole line taken out and we
2 don't want any projects happening where it's just part of
3 the line taken out. So what we have -- are encouraging
4 states to do is in that -- in that removal of the full
5 lead service line is to, basically, to make sure that the
6 whole thing's funded so that the home -- the -- the people
7 living in the home, either the homeowner or the property
8 owner or whatever the case may be, doesn't become part of
9 the equation of how are we going to pay for that project?
10 Now, that's guidance from -- from EPA that -- that will be
11 states will decide how their programs are going to run.
12 But I think that's the question you were asking about,
13 Matt, sort of like that supporting about other part of the
14 line. We really encourage that -- that whole line to be
15 just supported through the funding of this bill so that
16 homeowners don't and -- and -- and -- and renters and
17 others living in -- living in locations that are served by
18 lead service lines don't have to put any money forward,
19 because that's -- that's a real barrier to having lead
20 service lines removed in many places, especially in those
21 underserved communities that we're prioritizing.

22 **MR. AMMON:** That's -- it's -- it's exactly what I
23 wanted to hear and it's actually nuance. It's actually
24 critical because, you know, I think, obviously, there
25 would be apprehension for anybody having to fund the part

1 from their house to where the hookup is in the street.
2 I'm also glad to hear that the assisted housing properties
3 aren't excluded from that because typically we are; we're
4 excluded from a lot of things in terms of funding. I
5 think that -- that is great news. I think that needs to
6 get out more. Now, I know Jamie you're probably flooded
7 with so many requests that you're going to run out of
8 money pretty quickly in terms of being oversubscribed for
9 the funding that you'll be getting.

10 **MR. MACK:** You know, I think at this point what we're
11 seeing is probably a higher number of requests for funding
12 to support lead service line inventories than we are for
13 direct replacements yet. The lead service line
14 inventories, I believe it's October 2024 they need to be
15 completed so that's where the focus is right now. In
16 preparation for the lead service line replacements, we are
17 having a lot of discussions about where we think that line
18 ends for our purposes because, you know, definitely we
19 want to go as far as we can, but once we start -- start
20 talking about private property and homeowners and renters,
21 you know, things get a little more complicated because we
22 have access issues and things like that, not to mention,
23 you know, restoring it to previous and, you know, it just
24 gets to be a very complicated conversation which is why
25 we're starting that now to make sure that we've got a good

1 plan in place for, you know, once the, the inventories
2 start to be completed and we start to see more requests
3 for money for direct lead service line replacement.

4 **MR. AMMON:** Good. Ruth Ann, you have a question?

5 **MS. NORTON:** Yeah, and just following on on Jamie's
6 comment, is there a mechanism by which people can
7 voluntarily have their house, their property, their plat
8 kind of added to that inventory, or is it simply all
9 public lines, at this point?

10 **MR. MACK:** I believe the requirement is public lines
11 at this point, but based on housing age, you know, we can
12 make some general assumptions about the housing stock and
13 whether there's lead pipes. But I can say here in
14 Delaware as the systems move through the lead service line
15 inventories, the state and public health are working to
16 increase the testing we have of private homes for lead.
17 We're working on how we can offer that through our public
18 health laboratory in my section here at public health,
19 both for those on public water systems, as well as private
20 wells because we think that's an important part of the
21 piece of the puzzle as well.

22 **MS. NORTON:** Yeah. We've been looking at the
23 Maryland legislature -- looking at the way in which we can
24 provide that option for people to opt in to have their --
25 their lines, if they do their own -- do the replacement

1 from property line forward, right, into the inventory and
2 I think it would be something worthwhile over time for us
3 to know that. But just -- just to let you know that we're
4 looking at how do you get that opt-in, right? Especially,
5 on properties -- private property that may have childcare
6 centers and daycare. So there's real certification there.

7 **MR. AMMON:** Great. Thank you. Paul, any additional
8 comment? Question?

9 **DR. ALLWOOD:** Yeah. Thanks, Matt. You know, I'm
10 just pleased to hear the discussion and -- and, you know,
11 something that -- that Dr. McLain mentioned, I think Matt,
12 you touched on this a little bit too. You know, the --
13 the plumbing infrastructure is, you know, vital,
14 obviously, but, you know, it also has certain, you know,
15 fragilities, if you will. And, you know, even slight
16 disruptions can lead to problems, and so, you know, just
17 wanting to -- to kind of make the -- the comment that --
18 that close, you know, close collaboration needs to take
19 place, you know, between the people that are involved in
20 the infrastructure improvements and the -- and the public
21 health, you know, community to ensure that if there is any
22 problems that are -- that are going to result from, you
23 know, wide-scale infrastructure improvement, you know,
24 they can be detected quickly and we can put in place the
25 appropriate interventions to, you know, avoid a serious

1 situation. So it's more of a comment, but, you know,
2 since Jennifer you also mentioned resilience of the -- of
3 the plumbing infrastructure, you know, drinking water
4 infrastructure, I should say. I wondered if you wanted
5 to, you know, comment on -- on how, you know, working
6 together across federal partners and state and local
7 partners, we might be able to, you know, make sure that
8 there is enough attention being paid to any potential
9 problems that might come up as a result of the
10 infrastructure improvements.

11 **DR. MCLAIN:** Thanks, Paul. That's a great point and
12 one of the values we see in having an inventory is that so
13 the -- the people who live in this -- it -- live in the
14 building or who go to school in the building and the
15 public health -- the local public health departments and
16 -- and state public health departments all have an
17 understanding of where those service lines are in addition
18 to the water utility knowing where they are. So this is
19 something -- this is information that's valuable, as you
20 say, from a public health perspective as -- as well as for
21 the utility to be, you know, working on these projects to
22 remove them.

23 We also make -- want to make sure that when lead
24 service line removal projects are underway that -- that --
25 that water utilities are using best practices in the

1 conduct of those operations and we hope -- and this is
2 something that's eligible for funding as part of the
3 project design to include mitigation such as communication
4 to the homeowners and -- and to the -- and to the people
5 living in the building that this project is going to
6 happen, providing filters for the home for a period of
7 time, you know, at the beginning and -- and following -- a
8 few months following the project in case there are any
9 lead particles that are dislodged in the -- in the conduct
10 of the construction. To make sure that those measures are
11 put in place as part of the project design is really a
12 best practice that can help those, you know, help protect
13 the public health and those folks who are living in the
14 buildings.

15 The -- I just want to also -- since I didn't have a
16 chance when Ruth Ann asked a question, I just want to make
17 sure that there's also an understanding that for the
18 inventory requirements that they have to -- the -- the
19 water utilities have to report on the entire line. So
20 they have to report what they know about from the main to
21 the meter and that also from the meter to the home so both
22 of those should be and are required to be reported in
23 their inventory.

24 **MS. NORTON:** Thank you. I thought that was the case.

25 **DR. MCLAIN:** Okay, just want to make sure that was --

1 **MS. NORTON:** Jennifer, are you -- are you also seeing
2 that when we're mapping the lead lines that there are
3 opportunities to be coordinating mapping of other lines
4 that are either fiber or other water lines is -- is it
5 simply -- I worry about the kind of siloing as we map
6 through cities of the infrastructure and I didn't know if
7 there's any effort to coordinate the mapping.

8 **DR. MCLAIN:** So I'm not sure, Ruth Ann, if your
9 question is will they like designate if there's -- there's
10 a use of other materials besides lead, or if you mean --

11 **MS. NORTON:** No, when they're digging, right? If
12 they -- if they -- when they dig, if they find other lines
13 does it go somewhere in a spreadsheet as cities, right,
14 are trying to map a lot of different things that haven't
15 been mapped over the years. I know this has come up in --
16 in some of the discussions, but we can talk about it
17 offline.

18 **DR. MCLAIN:** Okay. Yeah, that's not part of our
19 requirements, but we definitely would encourage I think
20 what you're suggesting that local -- local communities try
21 to coordinate as much as possible. Many of the goals
22 underneath the Bipartisan Infrastructure Law, such as
23 broadband access and lead service line removal and other
24 initiatives like that, yeah.

25 **MS. NORTON:** Instead of having them all in different

1 scattered places but, thank you.

2 **MR. AMMON:** Thanks for the question. And thank you
3 very much Dr. McLain for that great presentation. It's
4 now time to move on to public comments.

5 **PUBLIC COMMENTS**

6 **MR. AMMON:** We have three members of the public today
7 that'll be speaking. I'm actually going to ask them to
8 speak in the order that Paul had mentioned earlier, so
9 we'll start with Tom Neltner from the EDF. He's
10 available?

11 **MR. NELTNER:** All right. Thanks, my voice is a
12 little rough but I'll try to get through this in five
13 minutes. First of all, thanks to Jennifer McLain for the
14 presentation. Assistant administrator Ryder Cafox (ph),
15 Jennifer McLain and their teams are really doing an
16 outstanding job of getting that funding out with the right
17 policies. You heard some of that right now that it
18 applies to the entire line and it applies to all our SF --
19 SRF money. I wanted to dispel a notion that rate money
20 paid by customers cannot be used for LSL replacement on
21 private property. That's an -- that's a notion that's
22 come out, it's wrong. We partnered with Emmett Clinic at
23 the Harvard Law School. We looked at 13 states with the
24 most lead service lines. And there's no prohibitions.
25 It's in the public purpose to replace these lines.

1 In addition, Pennsylvania, Indiana, Missouri,
2 Illinois, New Jersey and Michigan have made it all
3 explicit that you can use rate money to replace it, so the
4 idea that you can't isn't based on the state laws that
5 we've seen and I have asked -- looked at other states and
6 haven't seen anything.

7 Next is the lead exposure risk index. That was a
8 presentation in December. Basically it gives an index for
9 a census tract that the CDC presented it on -- from a zero
10 to one scale. I love it. I think it's important. It
11 needs to be piloted, and it's really important that CDC
12 gets moving forward on that now because over the next two
13 years, as part of the Lead and Copper Rule that Jennifer
14 described, they're going to be posting inventories
15 effectively doing maps and if I'm a utility, the only
16 thing that will come out in this map is that a homeowner
17 who may have a -- elevated blood lead level has a lead
18 pipe. Putting that lead exposure in that risk index out
19 there provides context. We don't want people to think
20 that pipes are the only source of lead exposure and that's
21 where it's going.

22 On Clarksburg, one quick point, none of those samples
23 on the -- on the dust were at the floor. I don't know why
24 they didn't take any floor samples, even if it's a
25 carpeting; that's really important. Another one is to say

1 that they found that the first sample, and this is very
2 typical across the country, that the first sample wasn't
3 the highest sample. That they had 55 parts per billion
4 after 30 seconds. That's why EPA says, you should be
5 sampling with fifth liter. Those -- this is health
6 departments all across the country are taking the sample
7 the wrong way. And then I will flag that the sampling
8 results provided by Clarksburg are seriously flawed. If
9 they said they had no lead service lines, yet have them
10 because that bias is the sample selection. One last
11 point, in the American Healthy Housing Survey and the
12 NHANES, the latest data, it looks like racial disparities
13 for lead have dismissed, have gone. They're no longer
14 statistically significant and they may not even be
15 present. So I think we really need -- this committee has
16 to get ahead of the curve on that and really ask whether
17 that data that comes from both NHANES biomonitoring and
18 the American Healthy Housing Survey too is real,
19 nationally or locally, and get ahead of the message. If I
20 could see that it wasn't present, others are too. And you
21 don't want to have the message go out that there isn't a
22 problem. The message should be that this huge federal
23 investment has actually worked in reducing those
24 disparities. What Matt and his team do at HUD, what CDC
25 have done, make a difference. So don't let loose the

1 message, get ahead of the curve and get the facts out
2 there. Thank you.

3 **MR. AMMON:** Thank you, Tom. And now we will hear
4 from Nathan Park.

5 **MR. PARK:** Afternoon all. My name is Nathan Park and
6 I'm speaking on behalf of Earth Justice and want to thank
7 you for the opportunity to speak with you today on the
8 imperative need to end lead exposure and poisoning across
9 this country. The Biden/Harris administration has
10 outlined a whole government approach to addressing lead
11 exposure and poisoning and LEPAC should push CDC to
12 collaborate with EPA to the greatest extent possible on
13 lead and ensure that EPA issues protective lead-related
14 rulemakings that reflect the most up-to-date science on
15 the impact of lead to children as -- and adults.

16 As is reflected in the most recent ATSDR
17 toxicological profile for lead, lead is a cumulative
18 toxicant that affects multiple body systems. Many people
19 face cumulative exposures to lead in water, dust, soil,
20 air, food and household products. CDC should work with
21 EPA to ensure that the cumulative impact of lead across
22 all routes and pathways are reflected across the various
23 lead focused and related rulemakings coming out of EPA.
24 For example, CDC should work with EPA on the Lead and
25 Copper Rule. A recent updated analysis from EPA found

1 that 2.5 percent of children ages one through seven will
2 have blood lead levels above the new CDC reference level
3 of 3.5 micrograms per deciliter, even if they have no lead
4 in their water, due to multiple sources of exposure,
5 meaning any lead exposure from tap water is expected to
6 put thousands of children age seven and under above the
7 CDC's reference level. EPA promised in December 2021 to
8 overhaul and strengthen the health protections in its LCR
9 for drinking water, while at the same time letting the
10 Trump administration LCR revisions go into effect which
11 among other issues set up a leak involuntary testing
12 program at schools and childcare centers after the first
13 year, included a narrow -- narrowed definition of lead
14 service lines which excluded lead joints and connectors
15 and permitted over 90 percent of all water systems to
16 avoid lead service line replacement altogether.

17 CDC should work with EPA, to ensure that any new Lead
18 and Copper Rule reforms meaningfully account for CDC's
19 updated reference level. Specifically, CDC and EPA should
20 work together to model the different lead exposure
21 outcomes for children based on different lead action
22 levels since both agencies acknowledged the multiple
23 pathways of exposure and since EPA is required to consider
24 and explain alternatives if they settle on a particular
25 lead action level. CDC should also assist EPA in

1 strengthening the soil lead hazard standard, along with
2 the dust lead hazard standard, dust lead clearance level
3 and def -- definition of lead-based paint, as was -- as
4 was mandated to EPA by the Ninth Circuit Court of Appeals
5 a year ago.

6 LEPAC should urge CDC to assist EPA in developing
7 science-based health protective lead hazard standards by
8 adopting a soil lead hazard standard of zero parts per
9 million, adopting a dust lead hazard standard of zero
10 micrograms per square foot for all surfaces, adopting a
11 clearance level no higher than 5 micrograms per square
12 foot for floors and 40 micrograms per square foot for
13 windowsills, and adopting the lead -- definition of
14 lead-based paint that is based on the lowest possible
15 detection levels. Earth Justice also supports CDC's
16 announcement to identify and close gaps in childhood blood
17 level -- blood lead level testing as part of the
18 Biden/Harris administration's Lead Pipe and Paint Action
19 Plan.

20 Currently, early childhood lead testing requirements
21 are largely determined by state level regulations and
22 millions of children are not being tested due to
23 insufficient testing requirements or because they're
24 falling through the cracks of their state's requirements.
25 Because of this CDC is missing crucial data on the breadth

1 of the lead poisoning crisis and many families are not
2 receiving the information they need to protect their
3 children. It is important for CDC to work in coordination
4 with EPA and with state agencies in order to test as many
5 children as possible, the goal of eventually testing all
6 children to eliminate all lead exposures.

7 And finally, LEPAC should press EPA to use CDC's
8 blood lead level of 3.5 micrograms per deciliter as the
9 highest possible benchmark for any forthcoming lead
10 levels. LEPAC should also press EPA to at least consider
11 benchmarks that result in blood lead levels of zero.
12 Thank you for your time.

13 **MR. AMMON:** Thank you, Nathan. And lastly we'll hear
14 from Michael Kosnett.

15 **DR. KOSNETT:** Good afternoon, colleagues. Can you
16 hear me? Okay.

17 **MR. AMMON:** Yes, we can.

18 **DR. KOSNETT:** Thank you. I'm Michael Kosnett. I'm a
19 physician specializing in occupational environmental
20 medicine and medical toxicology. I'm an Associate
21 Clinical Professor at the Colorado School of Public
22 Health. And for the past 30 years I have engaged in
23 research, clinical care and public health activities to
24 reduce and prevent all aspects of lead poisoning. My
25 colleagues Perry Gottesfled, Deborah Cory-Slechta and

1 Diana Cebellos and I have presented a formal petition to
2 LEPAC and CDC to establish a subcommittee on prevention of
3 occupational lead exposure. It's my understanding that
4 all members have received it and I'm not -- and it's part
5 of the public record. I'm not going to reread the
6 petition. I do want to emphasize to all of you two key
7 things why this is the right thing for you to do.

8 Number one, the people of our country acting through
9 Congress want you to do this. LEPAC has a duty to address
10 occupational lead poisoning. Read the Congressional Act
11 that created LEPAC. Read the descriptions of duties in
12 the LEPAC Charter. Nowhere does the word child or
13 children occur. Instead it refers to addressing risks to
14 individuals which most certainly includes adults and
15 workers. LEPAC is not a recapitulation of the Advisory
16 Committee on Childhood Lead Poisoning Prevention, which I
17 had the honor to serve on for several terms. LEPAC is
18 charged with the duty to review and identify best
19 practices for the prevention of lead poisoning, and this
20 absolutely includes prevention of lead poisoning in the
21 workplace.

22 The second reason is that the health risk is severe.
23 The health risks faced by many adults with occupational
24 lead exposure is death. That's right, death from
25 cardiovascular disease. I encourage all of you to review

1 the studies that have established this. Maybe you need a
2 presentation on this topic at your next meeting. Read the
3 studies by Schober and others conducted on NHANES data or
4 my wife's -- wife's coffin -- colleagues using data from
5 the Normative Aging Study that have been published in the
6 past two decades. These are the highest quality
7 epidemiological studies possible. They are long-term
8 perspective cohort studies. And they have established
9 that long-term lead exposure at blood lead levels
10 currently tolerated in U.S. workplaces increase the risk
11 of dying from cardiovascular disease anywhere from 50 to
12 150 percent.

13 Now I ask each of you, can you think of a more
14 significant health endpoint than death? It's a national
15 disgrace, the current OSHA standards that have not been
16 updated in more than 40 years allow this to happen. OSHA
17 standards tolerate blood lead concentrations over a
18 working lifetime of up to 50 to 60 micrograms per
19 deciliter.

20 Members of LEPAC, I urge you to act. I respectfully
21 submit that you have a duty to address this topic and
22 report to Congress. I strongly urge you to establish a
23 subcommittee on prevention of occupational lead exposure.
24 Under your rules, you can bring in outside experts on
25 occupational lead poisoning to serve on the subcommittee.

1 They can come from academia, they can come from NGOs, they
2 can come from the private sector, they can come from OSHA
3 and they can come even from within CDC with the fine
4 authorities at NIOSH. I urge you to act now, we look
5 forward to your response to our petition and we stand
6 ready to exist -- to assist. Thank you.

7 **MR. AMMON:** Thank you, Michael, for that. And thank
8 you to all three who presented from the public today; we
9 greatly appreciate it. Now we're only a minute ahead of
10 schedule, which I think is an appropriate break to give
11 everybody one minute back. Thank you all for keeping us
12 on schedule, and I look forward to discussing everything
13 with you back from our lunch at 1:15. Thank you all.

14 **DR. RUCKART:** Matt, it's -- it's 1:00 p.m.

15 **MR. AMMON:** Oh, I meant 1:00. Yes, sorry about that.

16 **DR. RUCKART:** Thanks.

17 (Break, 12:15 till 1:00 p.m.)

18 **DR. ALLWOOD:** Good afternoon, everyone. This is Paul
19 Allwood, I'm the -- the Designated Federal Official on
20 LEPAC and it is -- it is a pleasure to welcome all of you
21 back for the afternoon session. We -- we do have a, you
22 know, pretty full agenda for the afternoon and, you know,
23 we're really pleased that so -- so many of you have been
24 able to stay on -- stay online to be part of the meeting.

25 **UPDATES FROM LEPAC MEMBERS ON LEAD-RELATED ACTIVITIES**

1 **DR. ALLWOOD:** Now I have the -- the pleasure to
2 request updates from LEPAC members on lead-related
3 activities that are taking place in their organizations.
4 And to start us off, I will ask Tammy Barnhill-Proctor to
5 share your updates.

6 **MS. BARNHILL-PROCTOR:** Hi. The Department of
7 Education is continuing to partner with EPA, and I'll
8 share our information that is coming from, not only EPA,
9 from CDC and -- and EPA regarding lead. So we continue to
10 support the distribution of information for lead exposure
11 and lead abatement acts and with our safe and healthy
12 students, that is our office that looks at the safety
13 environment -- that includes environmental, as well. And
14 lead continues to be a part of a subject for -- for that,
15 as well. So we continue to support and we continue to
16 distribute and look to follow any recommendations that
17 come from HHS, CDC and EPA.

18 **DR. ALLWOOD:** Thank you, Tammy. I think we have time
19 for one or two quick questions for Tammy. Are there any
20 questions? All right, seeing none.

21 **MR. AMMON:** Quick one. I have a quick one, Paul.

22 **DR. ALLWOOD:** Oh, sure. Sure, Matt, go ahead.

23 **MR. AMMON:** Is there, in terms of -- in terms of the
24 work related to lead in schools, is -- is there any
25 specific items that DOE has put in, you know, like their

1 strategic plan or -- or other working plans with EPA?

2 **MS. BARNHILL-PROCTOR:** To my knowledge right now, but
3 I do know that we have a standing monthly call with EPA,
4 and we have other members who sit on that committee and I
5 will be joining in hearing what's going on in that space,
6 but right now, no, there has not been any specific policy
7 recommendations or a strategic plan that specifically
8 calls out lead.

9 **DR. ALLWOOD:** All right. Thank you, both. Jeanne
10 Briskin, can you please share your updates?

11 **MS. BRISKIN:** Thanks very much. Just import my
12 notes. So thanks for the opportunity to give you an
13 update from the Environmental Protection Agency.
14 Regarding the dust lead hazard standards and dust lead
15 clearance levels, you may recall that in 2019 we tightened
16 the dust lead hazard standards which provide a basis for
17 risk assessors to determine whether dust lead hazards are
18 present. And in 2021 we lowered the dust lead clearance
19 levels and those are levels that indicate the amount of
20 dust -- lead and dust permitted on a surface after an
21 abatement. There were new executive orders in May 2021, a
22 decision by the U.S. Court of Appeals for the Ninth
23 Circuit; as a result we're reconsidering both of those
24 rules and expect to publish final rules in -- in summer
25 2024. We also withdrew two frequently asked questions in

1 November 2021. As a result, we want to make clear that
2 property management companies must now make sure that they
3 comply with EPA RRP rules. And so any individual or
4 entity, including property management companies, are
5 subject to the RRP rule requirements when they perform, or
6 offer to perform renovation repair or painting activities
7 for compensation and housing and child occupied facilities
8 built before '78 and therefore these people must be part
9 of a certified firm.

10 For lead safe work practices, in fall 2021 EPA's Lead
11 Paint Program launched the enhancing Lead Safe Work
12 Practices through Education and Outreach Program, a
13 training and outreach initiative focused on reducing lead
14 -- childhood lead exposure in 11 underserved communities.
15 And we wanted to increase the number of RRP certified
16 firms and consumer demand for lead safe work practices.
17 We provided free trainings in English and Spanish, based
18 on the community's needs, to over 280 contractors, 122 in
19 English, the remainder in Spanish, and they became RRP
20 certified. We offered free virtual web -- webinars to
21 community leaders on two topics, lead awareness curriculum
22 train the trainer for community leaders. And for the
23 first time we offered an understanding lead webinar for
24 anyone interested in learning about lead, about a total of
25 390 or so people participated in that.

1 EPA's strategic plan has a long-term performance goal
2 for 2022 to 2026 to emphasize our commitment to reduce
3 exposure to lead and to protect families, especially
4 children. The full five-year goal is that by -- by the
5 end of fiscal 2026 that we would complete 225 Superfund
6 cleanup projects that address lead as a contaminant. And
7 that represents the total count of completed removal and
8 response actions that address lead and is reported
9 quarterly. The FY '22 target is to achieve 45 completions
10 and as of the second quarter the program achieved 15 of
11 those 45 completions. Based on historical trends we see a
12 majority of completions occur in the latter portion of the
13 fiscal year. And the total target of 225 and the annual
14 target represents stretch goals developed after a review
15 of the actual accomplishments over the last three years.

16 Related to that, in December 2021 EPA launched a
17 Superfund lead collaboration pilot to promote more
18 effective collaboration on the local, state, tribal and
19 federal levels to address multiple sources of lead in
20 communities near Superfund sites. We're working with a
21 broad range of stakeholders to leverage those multiple
22 authorities and have new and ongoing partnerships with HUD
23 and HHS. And then, an example of Superfund cleanups in
24 Region seven, they report that they have remediated 306
25 residential properties at eight national priority list

1 sites, moving contaminated soils from those properties.
2 And they anticipate remediating an additional 694
3 residential properties this fiscal year and they
4 remediated 250,000 cubic yards of mine waste so far this
5 fiscal year. So that's the breathless update from the
6 Environmental Protection Agency. Thanks.

7 **DR. ALLWOOD:** Thank you very much for that very
8 informative update. You know, just if I could just ask a
9 clarification maybe. You started off by saying that new
10 rules will require property management companies to comply
11 with RRP. How -- how -- how is that being communicated so
12 that the companies, you know, can be aware of this
13 requirement and be proactive about complying with it?

14 **MS. BRISKIN:** Sure. So it's not a rule -- new rule,
15 it's the removal of two frequently asked questions that
16 were on our website that led people to believe that the
17 property management companies did not have to comply. And
18 we had a notice and comment to remove those frequently
19 asked questions and that people would have an opportunity
20 to understand our clarification of the policy. So we have
21 sent a, just so you know, compliance assistance letter out
22 April 18th. I can send you a link to that and we've done
23 some communications that I don't have specific details on,
24 but we have worked through our regional offices and
25 through our enforcement office to get the word out on

1 this. If you'd like, I can -- can research more details
2 and get that back to you, Paul.

3 **DR. ALLWOOD:** Thank you, Jeanne. Thanks and thanks
4 for clarifying. We do have time for, you know, maybe one
5 other question for Jeanne, if there's any?

6 **MR. AMMON:** Oh, I'll let -- I'll let Jill ask first
7 and then I'll -- then I'll provide comment.

8 **DR. ALLWOOD:** Yes, Jill.

9 **DR. RYER-POWDER:** Yeah. Just a quick question. Is
10 there -- are there any actions regarding reevaluating the
11 soil, the EPA soil screening level for residential
12 exposure of 400 milligrams per kilogram? I know here in
13 California we use 80 milligrams per kilogram based on
14 achieving a blood lead level of one microgram per
15 deciliter. So I often run into issues with -- with people
16 that are doing cleanup saying well EPA only requires 400.
17 So I was wondering if EPA is -- is reevaluating or
18 evaluating that 400 milligrams per kilogram standard.

19 **MS. BRISKIN:** I believe that that is a topic under
20 discussion. I don't know the exact status, but I'd be
21 happy to get back with you on that.

22 **DR. RYER-POWDER:** Oh, that'd be great. Thank you
23 very much.

24 **MS. BRISKIN:** Sure.

25 **DR. ALLWOOD:** Thank you. And Matt, did you have a

1 comment?

2 **MR. AMMON:** Yeah. Actually on the soil, I think that
3 we are working with EPA on using some of the data that we
4 -- you all had in terms of clearance to see about what
5 evaluations can be done in terms of that revision. I --
6 and it's part of our joint work that we're doing with you
7 on the, you know, Environmental Justice 40 Initiative out
8 of the White House, which is a lot of work under that.
9 But one of the things I -- I did want to mention and --
10 and I love hearing about your strategic plan, your '22 to
11 '26 because as you know we spent a long time working on
12 that as well. And -- and even though we almost came to a
13 conclusion in terms of wording to do a -- a joint goal
14 here, which we will get to that eventually, but it is nice
15 to know that we're actually actively sharing data on
16 exactly what you said, you know, you're sharing data to
17 HUD in terms of Superfund sites and denoting --
18 delineating sites so that we can do a matchup of our
19 public housing properties or multifamily Section 8
20 properties, just to make sure that, you know, we're aware
21 of -- of potential exposures and we can take active
22 measures and we've done that in the past. And now we're
23 taking a very proactive approach to making sure that some
24 of the things that have happened in the past with
25 exposures don't happen again. So it's great that we have

1 this partnership and that we share data all the time and
2 your office as a Superfund works with our Office of
3 Environment and Energy and the Office of Community
4 Planning and Development on a regular basis and I think
5 it's great work that people should really know about and
6 because it really is in essence taking core data and doing
7 something with it at the local level. So I -- I really
8 appreciate that work.

9 **MS. BRISKIN:** Thanks, Matt. I -- I know that we
10 really enjoy working with HUD and I really appreciate your
11 expanding on some of that great collaboration. We
12 couldn't do without you, that's for sure.

13 **DR. ALLWOOD:** Thank you. Thank you both. And Jeanne
14 I just, you know, thought of something as Matt was
15 speaking. So the -- the lead safe training, you had three
16 virtual trainings, were those recorded? And you know if
17 they were -- would -- are those available like on your
18 website?

19 **MS. BRISKIN:** I will check for you.

20 **DR. ALLWOOD:** Okay. All right. Thanks Jeanne. All
21 right, moving on. Now we will get updates from
22 Dr. Michael Focazio. Just confirming that Dr. Focazio is
23 on. If you are, if you're speaking you're on mute. Okay.
24 Well, we'll -- we'll get back to Dr. Focazio later.
25 Dr. Hatlelid. Can we have your updates now?

1 **DR. HATLELID:** All right. Thank you. I don't really
2 have anything more to offer than what I talked about at
3 our last meeting, but to just recap, we are focused at
4 CPSC, the Consumer Product Safety Commission, on enforcing
5 our requirements for lead content in children's products
6 and for the lead containing paint regulations as well,
7 which cover paints for consumer uses, as well as certain
8 furniture articles and children's products that bear lead
9 containing paint. And so this -- our enforcement actions
10 occur all over -- all over the country in -- through our
11 ports to -- to -- in a continual effort to try to prevent
12 unsafe products from entering the U.S. and into the
13 market.

14 **DR. ALLWOOD:** Thank you for that update. Any
15 questions? All right. Seeing none, I am moving on to
16 Karla Johnson. Can you please provide us with an update?

17 **MS. JOHNSON:** Sure. One of the things that we're
18 working on, and this is in Marion County, Indiana, which
19 basically encompasses all of Indianapolis and a few
20 unincorporated areas, and -- and the health department is
21 really -- probably, you know, the same issue a lot of
22 people have, a lot of places have is the capacity to be
23 able to do the work that we want to do. So one of the
24 things that we're working on is testing all children and
25 first grade and younger in all 11 major school districts

1 in the county and then in -- in -- in -- in Indianapolis
2 so that includes a lot of early learning centers, as well
3 as, the Head Starts and some of the other larger, bigger
4 organizations. And in order to accomplish this, you know,
5 I think we have a, what we consider is sort of a -- a
6 twofold benefit here, is to get a lot of help to do this,
7 but also is to impact the next generation of workers so
8 we're working with a couple of schools. We're working
9 with Marion University, and that's the Department of
10 Public Health, the School of Nursing and the School of
11 Social Work and they're all -- they're helping us with
12 various aspects of outreach and testing. The Indiana --
13 University of Indiana's -- University of Indianapolis's
14 School of Nursing. The Butler University science
15 students, so they're going to help us as well in terms of
16 our outreach. And then one of the things that we're
17 involved in also is called the lead group and the lead
18 group consists of the -- some workers, some professors
19 from Indianapolis for the, I'm sorry, IUPUI, which is
20 Indianapolis -- Indiana University -- Purdue University at
21 Indianapolis, the IUPUI or the IU School of Law, the
22 Hoosier Environmental Council, the Marion County Public
23 Health and a few of the other -- and a few other
24 organizations, just to -- to impact any kind of policy
25 decisions that we want to make in the state regarding lead

1 poisoning prevention. And so I think the biggest thing
2 that we're doing in our -- in my department, though, is
3 really trying to impact the next generation of workers.
4 We also get on a regular basis some IU med students who
5 come through the department as well to get some education.
6 So we really want to use that free labor in terms of
7 getting those -- those students out to help us do testing,
8 education and outreach, but also to impact them in the
9 future, as well. Our work with the NAACP has also helped
10 us a lot in terms of getting into places where we're not
11 able to get into to -- to forward our message.

12 **DR. ALLWOOD:** Thank you, Karla. This is really great
13 -- a great update and just pleased to kind of hear of all
14 the different partners that -- that you are working with
15 in Indiana. Any -- any questions from -- from anyone? Or
16 any comments? Okay. Hearing none, we're moving on to
17 Dr. Mielke. Can -- can you please share an update with
18 us?

19 **DR. MIELKE:** I'll talk about this later, but I have -
20 - I did a project in New Orleans which we looked at soils
21 in playgrounds on two different sides of the freeway, the
22 -- is I-10 going through New Orleans. In one side I
23 advised the landscaping of the -- of the playground and
24 the other side I didn't even realize there was a
25 playground out there. The students did the research and

1 -- or did the collection and then we analyzed them. And
2 I'll -- I'll present those later, but it -- there is
3 distinct differences between the areas that had been
4 landscaped and those that had not been landscaped and we
5 do know something about the ease of doing the landscaping
6 so that has proven to be important information to -- to
7 address and move forward.

8 **DR. ALLWOOD:** Okay. Thank you for that, Howard. Any
9 questions from Howard -- any questions for Howard? We're
10 going to be hearing from him a little later on in the
11 agenda. Okay. I am not seeing any, so I'll move on to
12 Dr. Mohllajee.

13 **DR. MOHLLAJEE:** Hi. Thank you. This is Anshu
14 Mohllajee for the Department of Public Health California.
15 We just have provided new data on our website whereby in a
16 report, so it's lead blood data and source data of our
17 children who are full cases. And we also have that data
18 by race ethnicity. We also continue our collaborative --
19 collaboration with the Department of Healthcare Services
20 and where we on a quarterly -- every quarter and then also
21 yearly, we provide match data with medical enrollment and
22 our blood lead data to determine whether or not children
23 are being tested. That information eventually Department
24 of Health Services gives to their managed care plans and
25 also to work with their providers to increase testing and

1 so we've been very successful for doing that for over a
2 year. And we also are working on some educational
3 outreach about lead service line and to make sure that our
4 communities know about the opportunities around that.
5 Thank you.

6 **DR. ALLWOOD:** Thank you. Thank you for that update.
7 Any questions? We have time for one or two questions,
8 anybody has any? Okay, Perri?

9 **DR. RUCKART:** Yeah. Hi. I have a question for you
10 Anshu, I was just wondering if you would be able to just
11 describe what you consider a case, and if the BLRV update
12 is going to be influencing your definition of that at all?

13 **DR. MOHLLAJEE:** Yeah. Sure. So right now we
14 actually have two types of cases. So every child
15 currently in California at the blood lead level 4.5 or
16 greater get some level of services. And currently it's a
17 tiered approach and so children that are either at a 14.5
18 or a 9.5 to 4.4 persistent get kind of the gold standard
19 of care, which is having the home visit and the
20 environmental investigation take place. So that's what we
21 would describe as our full cases. If resources allow,
22 jurisdictions can provide those same services to the 4.5
23 to 9.4 levels. If they cannot, at the very least they do
24 need to be able to doing outreach that family and also
25 working with the provider and the family to make sure that

1 they have follow-up testing. We are working on adopting
2 the 3.5 to 4.4 levels and making our basic cases that 4.5
3 to 9.4 currently go down to the 3.5. Of course we have to
4 work on providing resources to our local jurisdictions,
5 but we do have a plan and strategy for that and so we're
6 hoping to implement that soon. But we have let all
7 providers know that they should be following up children
8 at 3.5 and greater, but we are going to be working on --
9 on trying to give them the -- the public health case
10 management also at that lower level.

11 **DR. RUCKART:** Great. Thank you.

12 **DR. MOHLLAJEE:** Thanks.

13 **DR. ALLWOOD:** Okay. Thank you for that. Let me just
14 announce that Jeanne Briskin provided some web -- web
15 links for the information related to managers RRP
16 information which I -- I put out in the chat and, Perri, I
17 hope I didn't -- I didn't do this the wrong way.

18 **DR. RUCKART:** It's okay.

19 **DR. ALLWOOD:** Okay.

20 **DR. RUCKART:** I got some new information from tests,
21 but we can discuss that later.

22 **DR. ALLWOOD:** Okay. All right. Thank you. And then
23 Jeanne has also provided some additional information and
24 -- and the web link for the NHANES lead safe work
25 practices training, you know, which the website has links

1 to all of the training, as well -- as well as other
2 aspects of the program. So please check those websites
3 out if you would like additional information. Okay. All
4 right so continuing with updates, it's now
5 Dr. Ryer-Powder's turn to give an update.

6 **DR. RYER-POWDER:** Okay. So I -- I have two updates,
7 one of them it's -- it's -- it's regarding an -- an -- an
8 FDA guidance and I am not part of FDA, at all, but I -- I
9 follow the information regarding lead in food. So I just
10 wanted to make everybody aware that on April 27th, 2022,
11 the FDA issued a draft guidance providing the draft action
12 level for lead in apple juice. And the FDA says the new
13 levels are intended to reduce the potential for negative
14 health effects associated with dietary exposure to lead
15 and the action supports FDA's closer to zero action plan
16 which intends to reduce the exposure to toxic elements in
17 food. Excuse me, the -- the action levels are actually
18 determined using FDA's interim reference level or their
19 IRL -- I'm sorry, which was actually based on the former
20 blood lead reference value of 5 micrograms per deciliter.
21 They do say in a footnote that that level was updated, but
22 they do not incorporate that new blood lead reference
23 value in this new guidance. So it -- it made me -- it
24 made me think about and wonder if and when FDA is going to
25 -- going to recognize the new blood lead reference value

1 and if and when they are, are they going to start
2 incorporating it into their guidance for action levels for
3 lead in food.

4 **DR. ALLWOOD:** All right.

5 **DR. RYER-POWDER:** And -- and then my -- my other --
6 well, my other update was more related to what I'm working
7 on a case right now in Southern California, where there's
8 lead contamination in an area called Parkways in a
9 residential development, which is the area between a side,
10 like the sidewalk and the street there's that strip of
11 grass and we're trying to develop cleanup levels based on
12 site-specific exposure assessment. So that's -- that's a
13 case that I'm working on. That's it.

14 **DR. ALLWOOD:** Okay. Thank you, Jill. You know, very
15 important updates, you know, we -- we are aware of the new
16 FDA guidance and, you know, really do appreciate, you
17 know, that agency's efforts to help protect our kids. Are
18 -- are there any questions for -- for Jill?

19 **DR. RYER-POWDER:** So, so is anyone -- or is anyone
20 from FDA on our -- on our panel or is there a way to get
21 information as to how the blood lead reference value is
22 being incorporated into the programs or is there some kind
23 of link or liaison?

24 **DR. ALLWOOD:** So Jill, we -- we do have, you know,
25 ongoing interactions with FDA on a variety of things and,

1 you know, this is one of those that I don't have a
2 specific answer for you as to, you know, what our current
3 discussions with them are related to this specific
4 guidance. But, you know, I will be -- we'll take this
5 back to -- to our center and -- and see if there are
6 follow-up discussions that need to be -- to be held to,
7 you know, understand a little bit better what the FDA's
8 plans are over the long term with respect to setting their
9 guidance levels.

10 **DR. RYER-POWDER:** Okay. Thank you.

11 **DR. ALLWOOD:** Thank you. Okay, seeing no hands
12 raised or any indication that anyone wants to -- has a
13 question or a comment, I'll move on now to hearing from
14 our non-voting liaison members. And I'll start out with -
15 - with Jamie -- Jamie Mack who is with -- who's
16 representing the Association of State and Territorial
17 Health Officers.

18 **MR. MACK:** And I've only been representing them for a
19 very short time in this sense. So, you know, I'm happy to
20 be part of conversations, but no specific updates at the
21 moment.

22 **DR. ALLWOOD:** All right. Thank you, Jamie. And
23 thank you for being here. Ruth Ann -- Ruth Ann Norton
24 represents the Green and Healthy Homes Initiative. Would
25 you like to share an update, Ruth Ann? Okay. All right.

1 Not hearing Ruth Ann, we'll just move on to Dr. Patrick
2 Parsons who is representing the Association of Public
3 Health Laboratories.

4 **DR. PARSONS:** Hi, Paul.

5 **DR. ALLWOOD:** Hi, Pat.

6 **DR. PARSONS:** Can you hear me okay?

7 **DR. ALLWOOD:** Yes.

8 **DR. PARSONS:** Good. So I serve on the APHL's
9 Environmental Health Committee, and within that I -- I
10 take -- I lead a small group focused on -- on lead issues
11 and so there are a couple of things that there are
12 ongoing. They're developing guidance for public health
13 laboratories to, you know, implement 3.5 and to modify,
14 you know, internal procedures. There's another document
15 on the prescreening of supplies to help minimize
16 background contamination. But these are, you know, fairly
17 brief documents and they draw heavily on a much broader
18 document that comes from another body called the Clinical
19 Laboratory Standards Institute.

20 So I'd share the Document Development Committee for a
21 document called C40, which is the determination of lead in
22 blood. Now that document has been around for quite some
23 time; in fact, I chaired the original committee back in
24 the '90s that developed the first version in the wake of
25 10 micrograms per deciliter. It was a long time ago. And

1 it was updated in 2013 and we were on our way to finishing
2 the update when in September the new blood lead reference
3 value was introduced. So I very quickly pulled it back
4 from the, you know, the review processes that we really
5 need to implement this and deal with it, you know, across
6 the broad spectrum of -- of what goes on in clinical
7 laboratory medicine. So I can tell you that the document
8 will include 3.5 as a definition of elevated. It
9 recommends that any initial value above 3.5 be confirmed
10 with a new outcome in the lab, so that's internal.

11 We recommend the contamination -- background
12 contamination be limited to no more than .2 micrograms per
13 deciliter, that's a change from what was previously
14 recommended, which was .5. And it contains an appendix
15 that in very great detail lays out how laboratories can
16 prescreen, you know, devices and supplies to make sure
17 that they are -- are fit for purpose. It also recommends
18 that the acceptable criteria for PTB plus or minus two
19 micrograms per deciliter so you probably know that the --
20 our branch of the civil -- federal government that
21 oversees PT for CLIA CMS still operates with plus or minus
22 four and we have been, certainly when I served on the
23 previous ACCLPP we were making those recommendations to
24 plus or minus two a decade ago and, of course, it's --
25 it's very slow to change but that's in this consensus

1 document, so we hope that laboratories will be
2 implementing that regardless of what is currently required
3 -- all of the federal PT programs. So I think all in all
4 we're making good progress. That document is now
5 undergoing a -- a -- a review process that CSLI has all of
6 its documents. Stakeholders can weight in. The committee
7 will come back and address any comments and then it should
8 be published. But much of what was recommended there has
9 been shared with the APHL Committee, and so we expect that
10 to be disseminated sooner than when the CLR document is
11 published. So I think that actually completes my update.

12 **DR. ALLWOOD:** Thank you, Patrick, for that very, very
13 important update. And we're really pleased to hear that,
14 you know, progress is being made, and you know, in
15 addressing the, you know, testing, you know, accuracy
16 challenges, and you know, also addressing PT matters.
17 Where -- where will the consensus document be ultimately
18 published?

19 **DR. PARSONS:** I would probably guess anywhere from
20 maybe a year to as much as 18 months; it depends on -- on
21 how quickly it goes through the process. It'll already
22 been through the editors at CLSI. Now, I pulled it back
23 because we didn't want to publish a document that had
24 five; we wanted to make it relevant, so we were successful
25 in pulling it back. So I think it probably will be closer

1 to a year, but a lot depends on what kind of comments we
2 get back and if there are lots and lots of comments, then
3 we have to come back and develop consensus on how to, you
4 know, modify the document or, you know, respond to those,
5 those comments as we get them.

6 **DR. ALLWOOD:** Okay. Thank you so much. And then --
7 other, you know, publication would be on a website or are
8 there other ways that -- that would help to ensure that
9 the partners, you know, have easy access to it once it's
10 finalized?

11 **DR. PARSONS:** So CLSI, you know, provides documents
12 in hard copy as well as electronic. It is a subscription
13 service and so -- but I think that most, you know, public
14 health laboratories that subscribe to CLSI because there
15 are a broad range of documents that are very, very useful.
16 And so it is, you know, something that, you know, you have
17 to pay a fee for to -- to -- to get the -- I don't know
18 about other health plans, but I think many are, you know,
19 you know, subscribe to those -- those services from CLSI.

20 **DR. ALLWOOD:** Okay. Thank you so much. All right.
21 We have time for, you know, one or two additional
22 questions for Dr. Parsons, if there are any. Okay. I am
23 not seeing any so let me move on now to Dr. Stephanie
24 Yendell who's representing the Council of State and
25 Territorial Epidemiologists.

1 **DR. YENDELL:** Hi. Good afternoon. So the Council of
2 State and Territorial Epidemiologists has two updates.
3 The first, is that the blood lead position statement is --
4 has an update in progress. The current position statement
5 is updating the prior position statement which was 15EH01;
6 it will change the name of the condition under
7 surveillance from elevated blood lead level to lead
8 exposure, lead in blood, and it will also update the
9 criteria for reporting the case definition and case
10 classification. In 2021, of course CDC announced an
11 update to the blood lead reference value based off of
12 NHANES data. And in recognition that there is no safe
13 level of lead, CDC also noted that they will no longer use
14 the term elevated blood lead level and instead will use at
15 or above the blood lead reference value in reference to
16 children.

17 Subsequently the 97.5th percentile for adults in
18 NHANES was calculated as 3.49 micrograms per deciliter.
19 So the revised position statement, it has two tiers of --
20 of case definition and classification. The first is for
21 lead exposure, lead in blood, and the second is for blood
22 lead levels at or above the reference -- the reference
23 level for intervention. And the revised position
24 statement also updated the laboratory value for case --
25 case classification related to the second tier from

1 elevated blood lead level at or above 5 micrograms per
2 deciliter to blood lead levels at or above the reference
3 level for intervention of 3.5 micrograms per deciliter.
4 So the updated position statement will enter CSTE
5 membership review this week and if it passes member review
6 it will be presented for council ratification at the CSTE
7 annual business meeting on Thursday June 23rd of this
8 year. And CSTE looks forward to looking at the
9 implementation of the updated values later this year.

10 The second announcement is a reminder that the CSTE
11 annual conference is coming up. So this year's annual
12 conference will take place June 19th through 23rd in
13 Louisville, Kentucky, and virtually. The conference will
14 include workshops, plenary sessions with leaders in the
15 field of public health, oral breakout sessions, roundtable
16 discussions and poster presentations. Conference
17 attendees meet and share their expertise in surveillance
18 and epidemiology, as well as best practices in a broad
19 range of areas, including environmental health
20 surveillance, and it features a virtual workshop focused
21 on environmental hazards and cancer clusters and a
22 dedicated environmental health session track. So let me
23 know if there are any questions. Thank you.

24 **DR. ALLWOOD:** Thank you for those updates, Stephanie.
25 I'm really pleased to -- to hear of the work being done on

1 the -- on the revised position statement, and, you know,
2 pleased that CSTE has been, you know, such a strong
3 partner with the CDC and -- in so many things. We're
4 looking forward to -- to, you know, the -- the revised
5 position statement once it has been fully acted upon by
6 your -- your members. And just one question on the -- on
7 your upcoming conference. Would the -- is the entire
8 conference accessible both virtually and in person?

9 **DR. YENDELL:** Yes. It's my understanding is that it
10 is going to be a fully hybrid conference.

11 **DR. ALLWOOD:** Okay, great, great. And it's in June,
12 can you please repeat the date in June?

13 **DR. YENDELL:** Yeah. June 19th through the 23rd and
14 June 23rd is the day of the business meeting which is
15 where if the revised position statement passes member
16 review, then it would be up for the council ratification
17 at that -- on that day.

18 **DR. ALLWOOD:** Okay, thanks. I see Perri has a
19 question.

20 **DR. RUCKART:** Yes. It's not a question, it's a
21 comment. I just wanted to piggyback off something
22 Stephanie said. We've gotten a few questions about the
23 national notifiable disease surveillance system definition
24 for a lead poison case here, and it is closely -- it's
25 tied in with when CSTE updates their position statement

1 then we'll be able to update that NNDSS, I just wanted to
2 let everybody know. Thank you.

3 **DR. ALLWOOD:** All right. Thanks, Perri. And we do
4 have time for, you know, one or two additional questions.
5 Oh, I just saw a note that -- that Ruth Ann has come back
6 to the meeting. Are you here Ruth Ann or would you --
7 would you be able to give us an update?

8 **MS. NORTON:** I am.

9 **DR. ALLWOOD:** Would you be able to give us an update?
10 Okay.

11 **MS. NORTON:** Yes. And I'm sorry about that, I was
12 delayed, and I want to thank (indiscernible) for flagging
13 this and getting me back on time. But thank you all. So
14 some updates on Green and Healthy Homes Initiative and our
15 work. As -- as many may know we launched, in the last
16 year, a \$50 million hospital community benefit fund with
17 the University of Pennsylvania, and -- in Lancaster, and
18 we've now matched that with another \$12 million worth of
19 funding and so we're advancing I think one of the most
20 interesting models there because this is a hospital
21 running a lead reduction program for a count -- for a
22 county and really driving that in partnership with the HUD
23 grant in the city. And they're also a HUD Healthy Homes
24 production grantee. In the state of New Jersey, we are
25 about to launch with the Board of Public Utilities a full

1 house intervention model that will become the model for
2 state housing in the state of New Jersey that will include
3 lead reduction of -- aligned with climate measures, energy
4 efficiency and healthy housing. And in seven cities
5 across the country, Detroit being the first, we just
6 launched with the ProMedica healthcare system of utilities
7 and foundations the first of seven cities where we'll do a
8 thousand homes of full lead reduction coupled with
9 health-based housing around asthma, falls and energy and
10 climate measures. And part of it is to demonstrate the
11 need to do lead reduction in all of the, not only the
12 weatherization work as a -- as a pre-weatherization
13 measure, but all of the climate work that's moving forward
14 on electrification and decarbonization. That is an
15 opportunity to get into housing to historically
16 disinvested communities. In all of these projects and
17 many others that we're working on, we're going to be
18 measuring those health impacts, including lead, as well as
19 the racial equity benefits, and in -- that come in terms
20 of jobs, wealth retention, school attendance and
21 performance, both in the short and longitudinal basis with
22 partners, including socially determined in many
23 universities.

24 And later this year we're going to be announcing a
25 partnership with ACUs around the country on lead

1 reduction. I'm happy to talk about that later in another
2 update. And I, in the interim of joining this as a non-
3 voting member, I also recently became after -- again,
4 after 25 years, the Chair of the Maryland Lead Poisoning
5 Prevention Commission. So we will be providing many
6 updates as to where we are going to be going in the next
7 -- we'll have a new governor coming and advancing more
8 critical investments through our CHIP program. So I was
9 so glad to hear from Mona today on that work. I'm happy
10 to always answer questions. I'm happy to do an offline
11 briefing on GHHI. Most of all, Paul, just delighted to be
12 here.

13 **DR. ALLWOOD:** Thank you so much, Ruth Ann. We're --
14 we're really happy to have you and, you know, thank you
15 for that very nice update. And we do have time for one or
16 two questions for Ruth Ann.

17 **MR. AMMON:** I don't have a question. It's just --
18 this really pairs nicely with what we heard last with the
19 Lead Safe Cleveland work that this work is innovative, you
20 know; it really breaks normal boundaries, it really breaks
21 the way we think about how our normal programs work in a
22 community, to totally think outside the box, you know. I
23 think that I've -- we've -- we've always said that the
24 most effective thing that we can do is just, you know, not
25 focus on our traditional lines of bureaucracy but able to

1 look to the left and the right and really patch all of
2 this work together at the local level and bring different
3 sets of partners to make it happen for the same common
4 outcomes. And I think that -- that, you know, this work
5 and elevating this work around the country is really going
6 to completely rethink the way we traditionally have done
7 work in the past. And I think that's the exciting thing
8 about it and the fact that we're -- it's being tested in
9 so many cities around the country who all have their own
10 unique problems, but it's basically creating a framework
11 where other areas can adopt to be successful, because
12 there isn't just one program that can fix the multitude of
13 problems. It really is a whole community of solutions
14 that need to be built around this work and this does that
15 exactly.

16 **MS. NORTON:** Thank you, Matt, you articulate this so
17 much better than I could, I think. By next -- on -- on
18 the 18th of May I will be testifying in front of the
19 Senate Banking Committee and the testimony is on climate
20 energy efficiency and resilience, but if you happen to be
21 -- and want to nerd out and tune into C-SPAN or whatever,
22 at the heart of it is going to be lead reduction because
23 we have to -- we have to take advantage of the dollars
24 that are going in for climate and energy efficiency and
25 other social determinants of health measures. I see all

1 of it as a pathway to expand the dollars on lead reduction
2 and find a way that if we didn't get the build back better
3 proposals to be able to up the dollars on -- on this. I
4 will say there are a number of cities still also, Matt,
5 Paul, and everyone, that are still looking at the ARPA
6 dollars on lead are still on the -- on the decision, like,
7 up on the chalkboard. Hopefully, we will get more than we
8 have but I've got to commend, for example, Milwaukee,
9 who's put in 26 million a year over the next three years,
10 it looks like on lead reduction money out of ARPA, Mayor
11 Barrett before he left started that. We're looking in New
12 Jersey at the potential of the -- Governor Murphy putting
13 300 million in on lead service lines and 300 million in on
14 lead paint. That kind of -- that's a game changer.

15 So there's so much happening to do this, but what the
16 alignment, what we are doing, for example in the ProMedica
17 partnership in Cleveland is to build around the -- any
18 other gaps on healthy housing that makes the Cleveland --
19 Lead Safe Cleveland phenomenal work they've done on that
20 fund to be even much, much more impactful. And as I said,
21 we just launched in Detroit and what was interesting about
22 Detroit, and the money that will go to lead and healthy
23 housing and energy, it was Detroit Energy, the utility
24 putting actual dollars in healthcare through ProMedica,
25 the city matching up monies and the Gilbert Family

1 Foundation folks know Rocket Mortgage and Quicken Loans --
2 the same family. So you have the intersection there
3 happening and I think social determinants of health
4 agendas for healthcare are moving us so fast that we have
5 to have a (indiscernible) strategy here. So thank you,
6 Matt and Paul, for the opportunity to talk about this.

7 **DR. ALLWOOD:** And -- and we thank you, Ruth Ann. You
8 know, we know that you and your organization, you know,
9 have been prime movers, you know, in helping to, you know,
10 push the -- the agenda, you know, for -- for more
11 investments in -- in lead poisoning prevention, not just,
12 you know, in terms of the -- the drinking water
13 infrastructure but also, you know, housing related --
14 other housing related sources of lead. So we really
15 appreciate having you here and thank you for your very
16 informative comments. And now continuing on with updates,
17 we will now hear from Lauren Zajac who is representing the
18 American Academy of Pediatrics. Lauren.

19 **DR. ZAJAC:** Yes, hi. Thank you. Few updates. The
20 first is the AAP is actually the national program office
21 for a program called the PEHSUs, or the Pediatric
22 Environmental Health Specialty Units. And another hat I
23 wear is, I'm a pediatrician with the Region 2 PEHSU and
24 the PEHSUs are collaborating right now about how we can
25 help support pediatricians across the country in

1 communicating with families about what low level lead
2 exposure means and what are the next steps. So especially
3 with the reference value recently being lowered
4 pediatricians are, you know, reaching out to us saying,
5 what do we do? What do we do with this? How could we
6 support families? And so we're coming up with a series of
7 documents and hopefully videos that can help with risk
8 communication. And also, hopefully, and I just -- I
9 really appreciated Dr. Hanna-Attisha's presentation about
10 Flint with all of the resiliency and positive
11 interventions that have been brought there that enhance
12 brain development, and, you know, it would be really
13 great, you know, if part of the lead conversation --
14 because lead is one of many exposures, broadly speaking,
15 that could impact brain development. And so putting it in
16 the conversation of how do we enhance brain development
17 from an early age, lead being a piece of that.

18 And other updates. I know that the AAP has been
19 working a lot with pediatricians on issues surrounding the
20 recall on the lead care tests. So I'm not sure if we're
21 going to talk more about that at the 3:25 session today,
22 but I know pediatricians have been, you know, struggling
23 with the shortages of the point of care testing because of
24 those recalls. And so, you know, AAP has -- appreciates
25 all of the communication and support that you all have

1 provided along the way. But that's still up, you know, on
2 our radar and we're still working through that.

3 **DR. ALLWOOD:** Thank you Lauren for those very, very
4 informative updates. I'm, you know, really pleased to
5 hear that AAP through the PEHSU network is beginning to
6 take a close look at, you know, those low levels, low
7 levels of lead in blood and, you know, trying to come up
8 with guidance, you know, for the members about, you know,
9 what -- what they mean and how to appropriately, you know,
10 provide care in those situations.

11 **DR. ZAJAC:** And it's hard because resources are so
12 different across the country. Where I practice in New
13 York City we're very fortunate to have a very robust
14 Department of Health and Lead Program where getting home
15 inspections and interventions for very low blood lead
16 levels is possible. Whereas, you know, when we work with
17 pediatricians or families in other jurisdictions that may
18 not have access to those resources and so that makes
19 messaging about what's considered an elevated lead level
20 even harder with these providers and the families who are
21 impacted, especially when there's not always a resource at
22 the ready that a family can access.

23 **DR. ALLWOOD:** Yeah. That's very awesome and, you
24 know, it's a really great point, you know, we do
25 understand that there are significant inequities, you

1 know, in terms of not only the risk of exposure but also
2 in availability of testing and other -- other aspects. So
3 we stand ready to partner with -- with AAP and, you know,
4 as we already do very actively in a number of different
5 ways, as you move forward in those discussions.

6 And let me just take a moment to just let everyone
7 know that Dr. Parsons indicated that while the CLSI, you
8 know, in reference to the consensus documents that -- that
9 are now in process, while the docs are available on a
10 subscription basis the APHL documents are posted on their
11 website and that they are freely available to anyone who
12 wants them.

13 Okay. All right. And now, I was remiss in not
14 calling upon Matt for an update from HUD, you know, work
15 in very, very close partnership, and, you know, evidence
16 by, you know, and Matt's very, very prominent and
17 significant role, you know, on this advisory committee and
18 -- and -- in so many other ways, you know, we -- we are
19 talking to one another on an ongoing basis, and, you know,
20 doing all that we can to ensure that there's good
21 coordination and collaboration across our agencies.

22 So I'm, you know, we're really pleased to have Matt,
23 you know, I'm, you know, as our Chair, but also
24 representing, you know, this very, very important agency
25 and Matt, do you have any updates for us?

1 **MR. AMMON:** Yeah. I'm -- I'm going to blast through
2 six minutes real quick. First, it is -- it just on
3 Lauren's thing too, you know, it's trying to find what
4 works best and what resonates in communities and, you
5 know, normally people probably wouldn't think initially
6 about PEHSUs, but, you know, it's one of those things
7 where we see as a huge viable resource to communities.

8 And we've been getting as -- as actively involved as
9 we can to make sure that we make those connections. And
10 then -- and then moving from -- I can see up from, you
11 know, what Ruth Ann was talking about that, you know, our
12 work being embedded in the environmental justice work.
13 And yesterday, on our -- Jeanne had talked about -- Jeanne
14 talked about our FY 2226 Strategic Plan, and yesterday I
15 updated our deputy secretary and all senior staff on our
16 strategic plan. And -- and I wanted them to recognize
17 that the most amazing thing about -- about my office, I'm
18 talking about health in housing, is that it's no longer
19 remarkable to talk about health in housing. It's no
20 longer something that we get, you know, people don't
21 understand the link between health in housing or housing
22 as a social determinant of health. We've made great
23 progress in the department, sometimes incrementally,
24 sometimes in big chunks. You know we're focusing on the
25 health of the occupants and whether that's related to lead

1 or whether that's related to carbon monoxide, or radon
2 we've -- we've -- we've done a lot and there's plenty more
3 for us to do, but again the fact that a housing agency is
4 talking about poor health issues and making those linked
5 together is something that, you know, we've been working
6 on for, well, I don't know, three decades now. I'm in the
7 Ruth Ann camp too, 29 years.

8 And -- and here we are and -- and where we are is a
9 place where in HUD's strategic plan, which, you know,
10 nothing gets measured unless it's -- it's in this plan,
11 right? What gets measured, what gets done. So as an
12 agency priority goal, normally when you think about HUD,
13 right, you think about reducing homelessness, rental
14 assistance, of course, promoting homeownership, and
15 sustaining homeownership, things of that nature, and then
16 you have this other core objective which is environmental
17 justice and that just gets down to our work, you know, our
18 collective work in the department to focus on reducing
19 hazards in at-risk housing, making them lead -- lead safe
20 and healthy. The fact that that is an agency priority
21 goal, even in itself, really -- really just proves the
22 amount of work that we have been able to do collectively
23 to highlight housings' impact on health. And so as we
24 focus on our -- our -- the work in the strategic plan, you
25 know, not only is it, you know, just regarding our work in

1 the Office of Lead Hazard Control and -- and Healthy
2 Homes, but it's also looking at the myriad of work that's
3 going on in the department and whether that is, you know,
4 increasing community awareness or aligning -- and aligning
5 HUD assisted housing inspections and their protocols,
6 prioritizing reductions in exposure to lead in other
7 contaminants, minimizing radon exposure, really taking a
8 broad view about looking at our environmental regs to do -
9 - to see what we can do to, you know, improve them,
10 targeting our programs in a way, and we've heard a lot
11 about targeting in terms of making sure that the money is
12 getting to the right areas. We're part of the EJ40 work
13 that, you know, focuses our work in disadvantaged
14 communities.

15 And then, again, all of the work that we are doing
16 with not -- not only in the building but outside of the
17 building, and so my pitch in my little story is that at
18 this point in time, we have historical amounts of money
19 that's available to communities. We'll have over \$600
20 million this year available to communities to do lead
21 hazard control and healthy homes work. We'll have money
22 related for healthy homes. We'll have money related for
23 radon mitigation in public housing. We'll have research
24 money. We'll have money related to grant programs that
25 combine our work with -- with weatherization. It's

1 imperative that we get the word out so that communities
2 get this money and use it in their communities to sustain
3 the work that we have been doing, collectively, for all
4 these years. And so, again, it's an historic amount of
5 money, it really is imperative that we get communities to
6 reclaim funding so that we can continue working with them
7 to really achieve these outcomes which are so desperately
8 needed. I'll pause there. I know we have one minute.

9 **DR. ALLWOOD:** Thanks, Matt. And, you know, I want to
10 thank everybody for -- for giving your updates, and at
11 this point I'll turn it back over to you, Matt, for the
12 rest of the meeting.

13 **MR. AMMON:** Yeah. So thank you all again for giving
14 us your great updates. I'm going to turn over to Howard
15 Mielke, give us an update and a presentation on lead in
16 air, soil, and blood.

17 **LEAD IN AIR, SOIL, AND BLOOD**

18 **DR. MIELKE:** Thank you very much, Matt and Paul and
19 everyone. Okay, so I'm really, first of all, I'm proud to
20 be a member of LEPAC, and I was selected by the American
21 Chemical Society to -- as a position in this committee.
22 Next, please. Do I change the slides? Who changes the
23 slides? Okay. Thank you.

24 Normally we pay attention to the right side of the
25 diagram that I'm showing the figure and prominent in that

1 is lead-based paint and yes, that's of course very
2 important and lead in water, lead in pipes, et cetera, but
3 I'm going to focus on another cycle and that is lead in
4 soil as it's related also to auto emissions and industrial
5 emissions. And the cycle that takes place is from the
6 soil to the air, back to the soil, and we know in the
7 research community we have quite a bit of information
8 about that. Next, please. Go ahead.

9 So my objective is to inform LEPAC about the facts of
10 the continuing impact of lead in air and soil on lead
11 exposure. And this topic has not really received the kind
12 of attention that it warrants and I'll show you why.
13 Next, please.

14 The paint industry and the Ethyl Corporation reported
15 about 6 million metric tons of lead in their respective
16 products. And the paint of course is visible, and
17 unfortunately the lead dust from exhaust was totally
18 invisible. Next, please.

19 I think I have a few, yeah, so the -- my goal is to
20 demonstrate why dust from the use of leaded gasoline must
21 be addressed to advance lead exposure prevention. And we
22 didn't really have the ability to measure lead with
23 sensitive instruments and they were first used in blood
24 lead and clinically, but I took the same instruments and
25 applied them to the environment. Next, please.

1 Here are some statements about lead in soil and lead
2 in dust in cities. The Lead Industry Association on their
3 board -- it had a policy decision in a board meeting in
4 April 13th, 1969, and what they've stated, basically, it
5 should be a primary objective of any lead industry
6 association program aimed at resolving the childhood lead
7 poisoning problem to keep attention focused on old leaded
8 paint as the primary source and to make clear that other
9 sources of lead are not significantly involved. I wish I
10 had known this earlier. I probably would have been able
11 to find better ways to describe our research. The Ethyl
12 Corporation followed up, actually, with a prominent paper
13 EHP, lead in dirt around houses is due to paint from the
14 houses. Lead antiknock agents are additives are therefore
15 not significant contributor to lead content of dirt around
16 houses where children usually play. And I will talk about
17 that, as well. Dr. Sayer, M.D., in Rochester, New York
18 questioned lead paint chips as main source of lead
19 exposure and he found larger amounts of lead dust in inner
20 city homes compared to children's hands in then in
21 suburban homes in children's hands. And that was a very
22 important statement, but he couldn't -- he didn't follow
23 up on it, he was very frustrated with what took place.
24 And later on Clair -- Clair Patterson said, sometime in
25 the near future it probably will be shown that older urban

1 areas of the United States have been rendered more or less
2 uninhabitable by the millions of tons of poisonous
3 industrial lead residues. So next, please.

4 The question is whether these statements were
5 warranted. Next, please.

6 My work was primarily on soils from the beginning, I
7 worked with Rufus Chaney at the U.S. Department of
8 Agriculture. We developed a method -- method for
9 measuring the amount of lead in soil and we used the city
10 of Baltimore inner city and outer city as a place for
11 research. And next, please. Next, please.

12 They haven't seen next yet. Can -- can I do the
13 changes? So we compared the high lead and low lead garden
14 soils in Baltimore. The low lead soils were predominantly
15 in the outer -- outlying areas of the city and the high
16 lead soils were in the inner city. And the -- because of
17 the P value, the probability value, we didn't -- chance
18 alone does not explain this difference between the inner
19 city and outer city. So we expected that the soil lead
20 pattern in all large cities would be similar to Baltimore.
21 Next, please.

22 The test of this was done in the twin cities. You
23 have two cities, Minneapolis and St. Paul, and what we
24 noticed is that the inner city soil lead levels contained
25 sort of 500 to 1000 parts per million, a tenth of that in

1 the suburban areas and a tenth of that in the rural areas.
2 Very striking differences between different parts of the
3 city. And the question then is about community levels.
4 Are there differences between larger and smaller cities?
5 Next, please.

6 So we did some more work on various sizes of cities
7 in Minnesota and what we discovered is that Minneapolis,
8 St. Paul, Duluth had especially high lead levels within
9 the -- these soils and that Rochester, the oldest city,
10 and essentially lead-based painted buildings in Rochester
11 had the lowest amounts of lead. And at this point, I want
12 to point out that, yes, the foundations do have higher
13 lead. Next, please.

14 The question is why such high lead levels along the
15 foundations? Next.

16 So particles -- the prime particles from exhaust of
17 lead particles are very dense and they pierce the boundary
18 water -- boundary layer around houses and fall down to the
19 side of the houses, and depending on the distance from the
20 road you'll get different amounts of lead in the
21 environment. And so you've got to pay attention to the
22 building side as a collector of lead and the areas around
23 the foundations, the high risk areas are clearly close to
24 the buildings. People should know this. Next please.

25 My -- the mission that I took on was the result of my

1 child getting lead poisoned back in 1983 -- who knew
2 Herbert Needleman -- and he kept talking about 10
3 micrograms per deciliter. Well, my daughter's lead levels
4 were much higher than that, and I became motivated as to
5 what to do. What -- what's the problem here, how come
6 children are getting exposed. Next, please.

7 I formed the lead coalition and it was a small group
8 committed people working together to understand the
9 problem. Next, please.

10 The Minnesota Department of Health entered into our
11 work. We worked with the legislature and what we noticed
12 is that blood lead levels follow the same pattern as we
13 we're seeing in the soil -- lead in soil, Minneapolis
14 having the highest lead levels. Let's see 60 percent were
15 below the -- the standard at that time of 10 micrograms
16 per deciliter and that the other 40 percent were above
17 that and as he went to Rochester none of the children in
18 that city tested above 10 micrograms per deciliter. Next,
19 please.

20 We also learned through the New England Journal of
21 Medicine that the addition of the catalytic converter in
22 1985 meant there was a reduction in the amount of leaded
23 gasoline to protect the catalytic converter, and as the
24 lead levels came down with a change in automobiles, blood
25 levels also came down, but in 1983 -- Next, please.

1 In Minnesota we discovered that there was an increase
2 in the blood lead levels in the children. Next, please.

3 The Minnesota legislature -- and go ahead. Next --
4 all -- all through -- through all these.

5 The legislature realized that there was a problem
6 that was related to lead in soil and they started
7 realizing it was related to lead in air and in the primary
8 focus then was to get lead out of air and that is
9 petitioning Congress to get lead out of air. Minnesota
10 legislature attempted to ban leaded gasoline, but it was
11 prohibited from doing that. Next, please.

12 So there was a hearing. I was invited to give a
13 presentation at the hearing, and basically the petition
14 required action by the EPA and they did revise the
15 schedule for banning leaded gasoline by ten years,
16 essentially, with a rapid phase-down and I worked hard on
17 that topic. Next.

18 So what does it mean to take lead out of gasoline?

19 The children in the United States had a remarkable
20 reduction in their blood lead levels. Next, please.

21 And these were -- decreases also observed in other
22 places. Next, please.

23 It's looked at other cities, Detroit, big city, New
24 Orleans, big city, similar types of reductions that took
25 place in blood lead levels. In a smaller city like

1 Pontiac, Michigan had lower lead levels, the children had
2 lower lead levels from the beginning and that went -- went
3 down. In the two -- two cities -- sets of cities about
4 less than 8 micrograms per deciliter for the larger cities
5 versus less than 2 micrograms per deciliter for the small
6 cities. Next.

7 So it turns out the same pattern shows up around the
8 world, and the interesting thing is that Sweden banned
9 lead paint in 1920s. They -- they've had lead free fuel
10 in 1995 and as there was a reduction, they came to a
11 stable amount of around 10 -- 2 micrograms per deciliter
12 in the small cities. Next.

13 The question is why there's a continuous amount of
14 lead in that blood lead levels that continue to be high.
15 In London they banned lead in petrol in 1999. And in a
16 recent study, what they found is that the isotope
17 composition of the particles in the air match the red --
18 road dust and top soil isotopes. So from the era when
19 they were using lead petrol and it became clear that
20 atmospheric lead was reaching a baseline in London and
21 that baseline was creating an issue where there was
22 continuous exposure taking place. Next, please.

23 We did the same kind of -- we did a study in New
24 Orleans where we had soil lead and we compared soil lead
25 with blood lead. Next, please.

1 And what you find is that the high lead areas of the
2 city are found in the same areas as high soil lead. Next,
3 please.

4 Next.

5 So the question then, how come soil lead is so potent
6 and it turns out that the potency is related to the amount
7 of lead dust on the very surface. And example, this is
8 HUD grant study that we did where we measured using what
9 we call the PLOPS sampler, the amount of lead dust that
10 arrives at the surface of the soil, and then we compare
11 that to the amount of lead that was being measured in the
12 soil using a soil technique and what we found is that the
13 -- the -- you completely misinterpret how much lead is on
14 the surface if you only use a sample of soil, the content
15 of soil. And that's very important and, for example, 400
16 parts per million is what, 150 times higher than the
17 interior of 10 micrograms per square foot. Next, please.

18 We've done a long-term study in New Orleans, soil
19 lead and blood lead maps from 1998 to 2001, 2013 through
20 2017, worked with the health department, they provided the
21 blood lead data, which I think was CDC's program, and what
22 we saw was that, first of all, over a period of time there
23 was a reduction in the amount of lead in soil and that was
24 fascinating. Next.

25 What we then realized is that the amount of lead in

1 the soil matched the blood lead levels so as soil leads
2 came down blood lead levels also came down. And they --
3 they are very strong associations, 10 to the minus 26.
4 Chance alone does not explain relationship between the
5 two. What is important to me is that if you look at 50
6 parts per million lead, you find that most children are --
7 do not have high lead levels. Above 50, you start getting
8 increasing numbers of children with blood lead levels
9 above 3.5. And this is -- turns out to be a very
10 important part of the issue. So why did the soil lead
11 decrease? Next.

12 It -- the decrease took place by some sort of
13 internal process. We think it's, by observation, a
14 changing of soil from below to above, this is a regular
15 kind of issue. But what -- what we saw in New Orleans is
16 that the areas of the city that had high blood lead levels
17 -- I'm sorry, high soil lead levels also had -- were
18 occupied by the black population and it tended to be high
19 -- high soil -- high blood lead levels. In -- in the
20 lower -- in the later study, the near studies about 50
21 percent black, but still this is the median lead level
22 about two and there's still a very large number of
23 children that are above the number of 3.5.

24 So near and far in -- in both cases, the other area
25 had very low lead levels in the soil and that's where most

1 of the white people are living compared to the black
2 people. I do want to point out that there's a big
3 difference in the life span between areas near the city
4 compared to far away from the city and near the city about
5 50-year lifespan. In the far -- further away about
6 80-year lifespan. Tremendous difference in this
7 disparities of major issue. Next, please.

8 So is disparity something that we should live with?
9 I think all cities have this problem. What we did is --
10 I've done a lot of work on changing soil in the city of
11 New Orleans. There was a -- a greenway project right next
12 to the public housing that was landscaped at my direction
13 and they brought in some very clean soil which is
14 available outside of New Orleans. There were two parks --
15 two parts of the park, I didn't know about this part.
16 Next, please.

17 My students collected the soil. So what we saw was
18 that the amount of lead in the lakeside area that -- where
19 it had been landscaped, is generally very low and the
20 median is somewhere around 20 parts per million. In the
21 riverside area, there was a very large variation in soil
22 lead and it's really unpredictable from sample to sample,
23 but what is clear is that you can easily change the soil
24 lead just by applying landscaping to -- to the soil. And
25 there are a number of cities that are doing this now; New

1 York City has a really interesting project. Philadelphia,
2 as well; of course, in New Orleans we -- we're doing a lot
3 of parks and there are other cities involved. So thank
4 you very much. Next, please.

5 I think I just have -- well a conclusion. Current
6 policies do not address legacy soil lead and this is
7 especially true in lead contaminated cities and that's,
8 unfortunately, the big cities are where we're seeing
9 problems and that was addressed, in fact, by Clair
10 Patterson back in 1980 into -- actually Sayer also noted
11 the same thing.

12 Thank you very much for your attention and for the
13 opportunity to give a brief and hopefully spectacular
14 presentation on the topic of lead in the environment and
15 the need for lead -- soil lead free or low lead soil at a
16 community basis. Are there any questions, comments?

17 **MR. AMMON:** We'll open it up. Paul, do you have a
18 question for Dr. Mielke?

19 **DR. ALLWOOD:** Yes, I do. I do. Thank you for your
20 presentation, Dr. Mielke. Just, you know, looking at your
21 concluding comments here, you -- one of them kind of
22 caught my attention. Previous lead deposits remobilizes
23 from soil to air and drifts into tracked homes. And then,
24 you know, as you're thinking about the landscaping project
25 I just kind of wondered well, it didn't -- I mean, unless

1 you explained -- I mean, if you said this and I didn't
2 catch it I apologize, but -- but it -- does that include
3 removing any -- any, you know, contaminated soil deposits
4 before new soil is brought in or is it just like a
5 covering that is applied?

6 **DR. MIELKE:** In New Orleans we just cover. The city
7 is low, people realize bringing clean soil and putting a
8 new layer is very beneficial to the low city. Public
9 housing has raise -- been razed, torn down and then they
10 put the clean soil and raised it and they're very clean.
11 Public housing now has very low lead levels around the --
12 the foundation -- in the -- on the whole project. As far
13 as I -- I've looked at the data and the blood lead levels
14 of the children living in those projects are really low
15 and they've come down a lot over...

16 **DR. ALLWOOD:** Okay. Thanks. But just in follow-up,
17 do you have any -- do you have any concerns about sort of
18 a, you know, -- I'm sorry I turned off my camera, I didn't
19 realize it was off -- any concerns about sort of, you
20 know, longer term, you know, potentials for some of the --
21 the, you know, contaminated soil to be kind of, you know,
22 come to the surface as people do additional, you know,
23 modifications to those remediated plots?

24 **DR. MIELKE:** We pay close attention to that. Really
25 clean -- player is that are childcare centers, for

1 example, we put in geotextile before we put clean soil on,
2 and we put about six inches of clean soil on top, and so
3 they -- they remain very, very low on lead, and if it
4 turns out children dig into this soil, they would run into
5 the geotextile. It was orange geotextile and it's very,
6 very noticeable. And that was -- that was a concern but,
7 overall I don't -- I think that adding a clean layer of
8 soil ultimately results in much lower lead levels.

9 The soil that we're using contains less than 10
10 micrograms per -- or no, sorry -- less than 10 parts per
11 million lead and so if you have 400 parts per million on
12 the -- in the soil, 10 part per million soil on the
13 surface of that would very rapidly -- it might mix, but it
14 would not -- it'd be a much lower number. And we tested
15 that over ten years and we found that the soils that were
16 covered did not have higher lead levels afterwards.

17 **DR. ALLWOOD:** Okay. Thank you so much. I do have
18 another question, but, you know, I'll pause here and then
19 see if anyone else wants to raise a question or offer a
20 comment.

21 **MR. AMMON:** I have a quick one, but I'll let you go
22 first, Paul.

23 **DR. ALLWOOD:** Yeah. So Howard, I was just kind of
24 wondering, you know, I think you mentioned that -- that
25 your -- your -- your -- your influence, you know, helped

1 university -- helped convince the university to -- to do
2 this work. Is there any plan, you know, there's one
3 picture you showed where there are two seeming like
4 relatively close areas, you know, one where there's that
5 one that has been remediated. Is there any plans to kind
6 of expand this to other areas on the campus or, you know,
7 beyond the campus?

8 **DR. MIELKE:** Yeah, beyond the campuses. If -- the
9 three way is beyond the campus. Well, you know, when we
10 found higher lead levels on one side, we -- I am working
11 closely with the Lafitte parkway -- or greenway is what
12 they call it, Lafitte Greenway, and they are going to be
13 landscaped on the other side of the freeway. I'm not
14 going to be in New Orleans much longer and I'm moving to
15 another city so maybe I'll have a chance to expand my
16 projects in Seattle, which is a city that needs a lot of
17 help, as well.

18 **DR. ALLWOOD:** Thank you very much.

19 **MR. AMMON:** So you know Dr. Mielke, I don't think you
20 remember, the last time I saw you was the last event in --
21 in New Orleans was March 2020. We were doing four homes
22 with Lowe's and you were there at the community event with
23 us. So it's good to see you.

24 **DR. MIELKE:** Yep.

25 **MR. AMMON:** One -- one question -- I know we only

1 have three minutes, but is there -- and -- and a lot of
2 this has been built upon research, you know, that we've
3 learned is, you know, is there, you know, a specific
4 question you'd still like asked that there is a research
5 need for, you know, that, you know, you can ask for
6 funding from us?

7 **DR. MIELKE:** Well, the -- the, of course, the
8 specific question would be, I -- we need to find a way to
9 reduce the amount of acceptable lead. Many places have
10 paid attention to that question. California uses 80.
11 Norway uses 60, Denmark uses 20 parts per million is safe
12 for children, and so we have to double down on that
13 because 400 is -- everything that we've looked at it when
14 we start paying attention to the amount of lead in the
15 soil, within a community and blood lead levels of the
16 children living in the same community, we're coming up
17 with 50 parts per million as being relatively safe. So
18 that question needs to be more fully explored. Seattle
19 probably is a good place to do it.

20 **MR. AMMON:** Noted. Well, is there any other
21 questions? We have about a minute before we take a ten-
22 minute break. I don't see any. We can add two minutes to
23 our break.

24 **DR. MIELKE:** I see a question.

25 **MR. AMMON:** I'm going to see if that can get moved

1 over to one of us.

2 **DR. MIELKE:** Somebody has a question, but they can't
3 seem to get their hand recognized.

4 **DR. RUCKART:** Howard, that's because the chat and the
5 questions and discussion is for the LEPAC members.

6 **DR. MIELKE:** Oh, okay.

7 **DR. RUCKART:** And then that was submitted by an
8 audience member.

9 **MR. AMMON:** Well, we can get that sent to us and we
10 can probably address it at a later time. But thank you
11 again, Dr. Mielke, great presentation, and we are up on a
12 break. So let's go ahead and take that now and see
13 everybody back in a short 10 minutes; at 2:40 we will
14 reconvene, 2:40. Thank you.

15 (Break, 2:30 till 2:40 p.m.)

16 **MR. AMMON:** All right. Welcome back, everybody. As
17 I think I've said this probably a billion times that I'm
18 always thinking about our work and how it impacts our
19 local grantees and I'm always asking the question to our
20 grantees, what can we do to make your job easier, since at
21 the end of the day we know that all work happens at the
22 local level in terms of really operational implementation.
23 And I'm not sure if in many ways the federal structure
24 makes it easy for locals to both navigate and implement
25 the various sources of funding and, of course, the various

1 sets of requirements that come with that funding. At a
2 time now when there is a lot of money available to be used
3 at the local level, you know, I think it is a good
4 learning lesson for us to hear about navigating all of
5 those different sources of funding and how it can be used
6 in terms of -- or how it can be aligned, essentially, at
7 the local level to get the outcomes that we -- that we all
8 desire.

9 And so this afternoon we're starting out with the
10 presentation about that and so I always like having our
11 (indiscernible) on. It's great to see you all. I know
12 we're very much looking forward to hearing about your work
13 and how you're able to accomplish this, so I will turn it
14 over to Carin.

15 **NAVIGATING MULTIPLE FUNDING STREAMS AT THE LOCAL LEVEL**

16 **MS. SPEIDEL:** Awesome. Thank you Matt, so much. And
17 I just want to introduce my colleagues -- I'm a line --
18 and it looks like we're here in -- in duplicate all under
19 Carin Speidel, but I promise you that these are not
20 doppelgangers. These are my wonderful colleagues. First
21 person I can see on here is Courtney Wisinski, and she's
22 going to be helping with the presentation. Sonia Frick,
23 who is our Lead Safe Home Unit manager is on, as well,
24 kind of splitting up the presentation so you get to hear
25 from all of us. And then last but not least, Nicole Wyse

1 with the City of Detroit Deputy Director for the Housing
2 Revitalization Department to get that perspective from a -
3 - a -- the local perspective. So thank you, Matt, and
4 Paul Diegelman and others for the invitation to present.
5 We're excited to share kind of our -- our lessons learned
6 in this approach to administer multiple funding sources
7 for various lead services.

8 So I'm going to go ahead and jump right into the
9 conversation, or I'm sorry the presentation, so if we can
10 move to the next slide.

11 So we always like to start on this little -- this
12 little guy on the -- on the screen there is a little one
13 that we were able to assist through our program and I
14 think this really puts into perspective and kind of brings
15 us back to level ground of why we're doing what we're
16 doing. This was a real family and a real home, and you
17 can see, he was expecting a sibling soon and so we were
18 just really proud to be able to provide these services and
19 -- and you can -- you could read his mom's testimony
20 there. Next slide, please.

21 So before we get into kind of what we're doing with
22 the multiple funding sources and how we're doing it and
23 what we've identified as best practices, I wanted to give
24 just a little bit of background on our organization. We
25 have in the last year or so been going through a massive

1 reorganization with our Department of Health and Human
2 Services here in Michigan. And so the lead services
3 section, which is the section that I manage, has really
4 kind of taken on the aspect as it -- as it is pointed out
5 in the name, around the services side of lead exposure and
6 lead poisoning prevention. And so we have -- we have
7 absorbed a big portion of our Childhood Lead Poisoning
8 Prevention Program so thanks to CDC folks on the call who
9 have been supporting that program here in Michigan for
10 many, many years. We're excited, it's a complex program
11 and we're learning each day, but really putting some
12 fantastic initiatives into place to help families impacted
13 by lead poisoning here and in this state. Our Local Lead
14 Services Development Unit, that is Courtney's unit, and so
15 I'll let her talk a little bit more about that in just a
16 minute. But the -- the primary take-away from that is one
17 of the big programs that's administered out of Courtney's
18 unit and will be a big topic of discussion this afternoon
19 is the community development program, and that is, you
20 heard earlier from Dr. Mona Hanna-Attisha and Ruth Ann
21 made references as well, that's taking a portion of the
22 Medicaid CHIP, or Child Health Insurance Program, dollars
23 and making them available -- available to local
24 communities to run their own lead hazard control program.
25 So what we've kind of modeled, what Matt and his team at

1 HUD have been doing for years and years at a state level,
2 at a local level to implement. The Lead Safe Home Unit --
3 so Sonia, I'm not sure if Sonia is on, or will be on, but
4 she is the manager of our Lead Safe Home Principal Unit.
5 We, just in the last several weeks, have actually split
6 her unit into two because it is growing so rapidly and so
7 we have kind of taken a geographic approach to, you know,
8 to those services and so really thinking about the local
9 lead services side is really about, you know, providing
10 support to local communities to administer these programs,
11 whereas the lead safe home units are really about the
12 direct services where we're -- we're providing those
13 services to the home right out of our central office.
14 Next slide, please.

15 We have also one additional changes that we have
16 split out the regulatory and compliance side of lead into
17 a sister section within our division. And so we have now
18 this certification and enforcement unit, which is
19 functioning under EPA dollars and that -- and I think most
20 folks are familiar with that, but that's, you know, that,
21 the authorized entity in Michigan to be able to do the --
22 oversee the training curriculum and the certification and
23 compliance of lead professionals. In addition, one thing
24 that we started to build and -- and this continues on a
25 daily basis is our Quality Assurance Unit. And you'll be

1 hearing a little bit more about this, as well, and why we
2 think this is sort of having a quality assurance piece is
3 so important in the work that we do. Next slide, please.

4 I just wanted to provide our mission statement here,
5 I think this kind of summarizes what we just talked about
6 and what we do and why we do it. Probably very similar to
7 many other states across the nation. Next slide.

8 So where are we now? So Michigan is as we've been
9 talking about here -- been hearing about all day has been
10 going through lots and lots of changes and sort of the
11 silver lining of all that's happened over the last several
12 years is that if we finally -- lead has finally gotten the
13 attention that it really has deserved for so long. And,
14 you know, thankful to Medicaid and CMS, in particular in
15 our state Medicaid office for the allocation of the CHIP
16 dollars. Starting in fiscal year '17 Michigan was able to
17 obtain about \$24 million a year for lead abatement
18 specifically and I think we were -- there's an argument
19 back and forth, but I think Michigan was the first in the
20 nation to actually acquire and to implement that. So
21 really proud of that that's been able -- we've been able
22 to really step up and help more families across the state
23 with that -- with that money. And then starting in fiscal
24 year 2014 our legislature appropriated state general fund
25 dollars in a very small amount; while we were thankful for

1 it, it helped us to secure our HUD grants through Matt's
2 office and things are going forward. That funding has
3 grown significantly over the past several years and, more
4 recently, just -- just this calendar year with the work --
5 if you've been following the news in that -- the city of
6 Benton Harbor. We were able to get an appropriation there
7 to really expand the work greatly that we're doing and
8 it's really -- it's really kind of -- what we're going to
9 be doing in Benton Harbor is really what we've been trying
10 to do everywhere for so long, and so happy to provide more
11 details about that later. So right now -- well, I should
12 say before the -- before the general fund dollars that
13 were appropriated for the -- for the work in the city of
14 Benton Harbor we were targeting between five and 600 homes
15 annually as a state program and that includes Courtney's
16 Community Development Program and Sonia's the Lead Safe
17 Home Unit work. With the addition of the general fund for
18 Benton Harbor work we're -- we're going to be probably
19 more -- the goal being more between eight and 900 units, a
20 year. So that's a lot when, you know, back in the early
21 2000s I think we were doing between 50 and 100 units a
22 year, it's been substantial. So we -- we want to kind of
23 let you know and share with you all what we are doing and
24 how we're doing it, best practices, so I'm going to pass
25 it to Courtney to kind of get into the nitty gritty of all

1 the programs that we're providing.

2 **MS. WISINSKI:** Oh, great. Thank you. Welcome. I'm
3 glad to be here. I wasn't here all day so I -- I missed
4 some of the presentations, I apologize for that. But as
5 Carin was saying we have expanded exponentially over the
6 -- the last five, six years. But we are still working on
7 our primary environmental services. We want to find that
8 the lead hazards and as, you know, here in Michigan and
9 probably elsewhere in the country, as well, a lot of focus
10 has gone on to water, but we want to make sure that we are
11 also focusing on the primary exposure pathways which is
12 dust, paint, soil and then sometimes personal items in
13 those elevated blood lead level cases.

14 And then also looking at fixing the lead hazards in
15 the past because our funding was somewhat limited we
16 implemented as many interim controls as we could, but
17 moving towards Medicaid and the CHIP funds, looking more
18 at permanent abatement in as, you know, many cases that's
19 feasible. We also added with our Medicaid funding what we
20 call our family support services, so we have family
21 service coordinators that help to find other resources,
22 wrap-around resources, for those families to make sure
23 that we can provide lead hazard control and that it's
24 effective and efficient.

25 One of the big roles that they -- that they fill is

1 relocation during abatement. We now have funding to
2 provide relocation during abatement, generally in hotels
3 or motels in certain cities, sometimes in other lead safe
4 housing. Next slide, please.

5 So in 2000 -- January 2017, is when the lead services
6 section and our state Medicaid office started working to
7 develop the state plan amendment to include lead hazard
8 control services. With that we really wanted to be --
9 think about it on a holistic approach. In the past we had
10 provided direct service sometimes we call central --
11 central office service which is -- that would be a Lead
12 Safe Homes Program that encompasses our own staff and
13 contracts out contractors. They -- that -- that comes
14 right out of our office, and what that allows us to do is
15 develop a really high level of quality assurance to make
16 sure we're kind of what our -- our director always says is
17 the gold standard for lead hazard control.

18 In addition Carin mentioned we're currently goal of
19 like, five to 600 -- or historically five to 600 homes per
20 year, and many of that three to 400 comes directly out of
21 Lead Safe Home. They are a somewhat of a machine and
22 they're very good at it. But what we also wanted to do is
23 kind of we're thinking from our experience, our long-term
24 experience with HUD, that just like providing -- HUD
25 providing on a local level, maybe at a state level, we

1 wanted to be able to do that too so that's when we
2 developed the Community Development Program and looking at
3 where those high risk areas are, where there's capacity
4 from -- from a local agency to -- to want to do the work,
5 as well as develop different models to implement that
6 work. For example, we've got some grantees that do
7 external crews, so that'd be similar to I think what most
8 people do in lead hazard control is we hire out certified
9 contractors. But we have been working with a lot of our
10 community action agencies that provide other services
11 that's internal; for example, weatherization, and so what
12 they've done is they've modified their internal crews to
13 also provide that -- that lead hazard control. So that
14 comes directly out of their office which is -- makes more
15 sense in some of our grantee areas, especially in our more
16 rural areas, that they have their own crews and they can
17 provide their own quality control.

18 As we know, the reason we want to -- to provide these
19 local -- these local dollars is because those communities
20 know their needs the best. They can then develop local
21 control, they have the trust of many partners in the area
22 already, and then of course you know looking to have local
23 infrastructure and/or neighborhood civilization. Next
24 slide, please.

25 So we'll talk a little bit about the different

1 service provisions we have. We talked a little bit about
2 the Community Development Program. That program is 100
3 percent CHIP funded and then what we do is we grant those
4 funds to local agencies. We do that through a -- an RFP.
5 Sometimes we direct solicit, knowing that we -- we need to
6 provide services there; for example, Benton Harbor; for
7 example, the Upper Peninsula. It can be a competitive
8 request for proposal and/or if you see the need to do the
9 direct solicit.

10 One of the things we really wanted to make sure and
11 knew would be -- be, you know, important for long-term
12 sustainability was providing technical assistance to those
13 communities. So we have two program coordinators that
14 have been assigned different grantees and they provide
15 direct technical assistance so they're pretty much on call
16 24 hours a day. We have weekly meetings with the grantees
17 to ensure any barriers are coming across is -- is
18 addressed right away.

19 One of the things to consider with a grantee is, is
20 there a capacity limit? So grantees on average can do,
21 can perform about 30 to 40 units for abatement per year,
22 depending on which model is used. So there's a little bit
23 of a capacity control there which, you know, just
24 reiterates our need for Lead Safe Home to be able to
25 provide that statewide response.

1 The next program is our Lead in Water Program which
2 kind of derived out of our -- our CHIP funds, knowing that
3 we were working predominantly in Flint and Detroit at that
4 time, developing these community development grantees, but
5 we, as a department, needed to develop water sampling
6 protocol that was much more health-based than what EPA or
7 our -- our Department of Environment and -- Great Lakes
8 and Environment. So we worked with our toxicologists, we
9 worked with DEQ at the time and with EPA to develop this
10 model for -- for water sampling. So the program kind of
11 has -- has grown from there with now what we are -- are
12 calling our Lead Action Level Exceedance Community. So
13 anytime we have -- EPA has designated a community with an
14 action level of exceedance of lead in their water, we can
15 provide lead inspection services to pre-'78 homes with
16 children under 19. This is fully grant funded so it's a
17 -- it's a free program for all of that investigation
18 services. And it's -- it's funded out of our general fund
19 dollars. More of a primary prevention effort because we
20 are only providing the investigation and education, not
21 necessarily abatement in these communities. Next slide,
22 please.

23 Then our -- our model program, our Lead Safe Home
24 Program, has multiple funding sources which makes their --
25 their financing component somewhat tricky. But we have

1 staff that are fantastic and make sure that every dollar
2 is accounted for and -- and accurately appropriated, but
3 they -- Lead Safe Home does have CHIP funds, of course,
4 they have the long-standing -- our foundational funding
5 for HUD and then several different general fund sources.
6 And again, mentioning these are internal staff and teams
7 that oversee the investigations in lead abatement.

8 We refer to the teams as regional field consultants
9 so generally placed in different areas of the state so
10 they can focus on those areas and -- and be consistent
11 with their -- their partnerships and other -- other
12 amenities in the area. The intake coordinators are the --
13 the folks in the office that are processing all of the
14 applications that are coming into the office. And just to
15 give an idea, most of those that work in this program, if
16 we're doing five to 600 homes a year, we're processing
17 1000 to 1500 applications a year. So it's a really big
18 job and they're also distributed regionally. And the
19 family services coordinators, currently we have two that
20 service Flint and Detroit, looking to maybe expand that
21 into Benton Harbor or some others, high risk identified
22 areas.

23 Outside of -- so mostly Lead Safe Home has targeted
24 areas through HUD and through CHIP, but then they also
25 have the ability to provide any -- to provide these

1 services to any EBL statewide. So they don't have to
2 follow the HUD guidelines or the CHIP guidelines as long
3 as they have an EBL. Most of the team will work to
4 facilitate environmental services so they're -- they're
5 handling -- maybe they're doing investigations, maybe
6 we're hiring out investigations, they're developing the
7 scope of work, overseeing those contractors all the way
8 through the end through clearance. So that is a really,
9 again, our foundational program we've learned a lot from
10 them to develop these other programs.

11 Carin, maybe I'll pass the Critical Engagement
12 Outreach Project back to you for a minute.

13 **MS. SPEIDEL:** Sure. Yeah. So this -- this next
14 piece I'll go through quickly is an engagement piece that
15 we -- was really sort of like a new -- a new piece
16 developed as part of the CHIP SPA dollars. And so what we
17 identified in -- in Dr. Mona Hanna-Attisha -- I refer to
18 some of this is -- is, you know, trying to find -- trying
19 to work with local community organizations in Flint to
20 help us. We knew that as a state government agency that,
21 you know, there was a lack of trust and so we wanted to
22 work with local partners there to really engage the
23 community and -- and let them know about these great
24 services in that. And so what we did was develop a
25 project, what we call our Engagement Outreach Project with

1 Genesee Health System, which is a wraparound service
2 agency in -- in Flint and Genesee County, I believe, and
3 really looking to their team of community health workers,
4 where the community health workers really would -- would
5 sort of work off of a list of, you know, all of the
6 addresses that were -- had a Medicaid enrolled child or
7 pregnant person in the home and really work with them to
8 try to follow this very detailed engagement protocol to
9 get them into the program. And so it's -- we've had a lot
10 of success with that and as Dr. Mona mentioned, as well,
11 we've also had great success in working with the -- the
12 Flint Registry and the community referral platform so that
13 when folks are signing up for the Registry and sort of,
14 you know, selecting certain criterias they're filling that
15 out and in and, you know, signing up for that. They get
16 automatically referred through the Registry and the
17 referral platform to our program for -- for the next steps
18 to get these services. So we're just really grateful for
19 all the community partners there and really just looking
20 at, again, as Courtney has mentioned, just looking to
21 local partners to really help us build a program knowing
22 that they know their community best and how to engage
23 residents. So next slide, please.

24 I'll -- I'll quickly just mention this, so we have a
25 pilot program that we started a couple of years ago with

1 some funds that were passed to us from what was the DEQ at
2 the time. These were state funds and what we decided to
3 do was address the gap with those dollars which was
4 licensed in-home childcares or daycares. And we knew
5 that, you know, children at that time and this was -- this
6 was pre-COVID, of course, were spending so much time, you
7 know, within like daycares and childcare settings that we
8 wanted to try to figure out if there was a way that we
9 could engage -- we could engage that community to -- to
10 also receive these services. And so that's an ongoing
11 project and it's -- it is a piloted project so certain
12 parts of the state only because it is limited funding.

13 So hopefully in, you know, the next year or so we'll
14 have some -- some better outcomes to share with that -- or
15 more final outcomes, I should say. The other -- the other
16 piece which I have to give a shout out, I don't know if
17 Ruth Ann is still on the line, but the Lead Poisoning
18 Prevention Fund is something that Ruth Ann was really the
19 igniting factor behind here, working with our department
20 leadership and the governor's office and others to get a
21 loan loss reserve program designed here. And so that we
22 are super excited to announce that that is kicking off I
23 believe May 18th is the go live date if everything falls
24 into place. We're going to be working with an entity by
25 the name of Michigan Saves to administer that fund. And

1 then on, you know, our programs are going to provide those
2 technical support services, including the -- the lead
3 inspections and the environmental investigations and --
4 and kind of technical guidance and spec writing and that
5 kind of thing. So that's a -- that's really sort of like
6 as we view it as a safety net program for residents of the
7 state that may not qualify for another existing program as
8 we've already talked about, then they can apply for this,
9 this low interest loan program. Okay. Next slide,
10 please.

11 I believe these are just some before and after photos
12 coming up. Or maybe I skipped a slide. Did I skip a
13 slide? I think I did; sorry about that. Workforce
14 Initiatives, so we know we've -- we've kind of -- we
15 continue to kind of beat this -- this dead horse of, you
16 know, we just don't have in Michigan, but I know it's a
17 national issue. We continue to have workforce shortages,
18 especially within lead abatement, but all trades and so
19 we've put into place some -- some actions we feel are
20 helping, but certainly not the -- the overall solution.
21 We're really trying to figure out what that -- the big
22 ticket idea is to really get us through and help us to
23 rebuild workforce, but some of the things that we've done
24 is, you know, our scholarship program has been
25 long-standing, you know, providing scholarships to folks

1 wanting to get trained in lead abatement or the lead
2 inspection process. We are doing an incentive program
3 where we're rewarding our lead abatement contractors who
4 are successfully completing projects and rewarding them
5 with a financial or monetary incentive so that they can
6 take that and then go purchase tools or supplies, or, you
7 know, new, you know, new equipment for their crews or
8 whatever it happens to be, they want to give their crew a
9 bonus, they -- as long as it's a work-related expense,
10 they can use that incentive for that. So we've had some
11 success with that. We've done a workforce campaign last
12 year, we're going to be pushing that out again this
13 summer. We have a -- an individual who was a former
14 contractor that is employed with us that actually will go
15 out with new lead abatement contractors and kind of do
16 on-the-job training with no risk of, you know, enforcement
17 or anything like that. Really just can talk contractor to
18 contractor, show them how to be successful as a -- as a
19 lead abatement firm.

20 And then we've got collaboration with other entities
21 happening as well, other organizations. And then our, you
22 know, our CLPPP Program, I can't -- I know this -- this
23 presentation is more focused on the environmental side,
24 but just want to kind of reference all the -- the great
25 work that continues to happen there and excited to

1 announce that, as of May 1st Michigan has officially
2 adopted the new blood lead reference value and so we're
3 really excited about that. That's been updated in all of
4 our policies for the most part, I think there's still a
5 couple lingering ones that will follow, but we -- we have
6 officially adopted and -- and are now referencing that new
7 value. So thanks to CDC and everyone who is a part of
8 that.

9 The next slide is -- these are the photos -- just --
10 I -- you've probably all seen these before, but a couple
11 of before and after photos. I believe this was a Flint
12 property and then the next one was a little town in
13 northern Michigan and that -- that home used to be a
14 former, as I understand it, it was some kind of a rail
15 stop home and so, yeah, just wanted to show those as they
16 are really telling of the story.

17 Let's see here. Moving along -- let's see, Courtney,
18 is this one you?

19 **MS. WISINSKI:** Yeah. I can talk about this, Carin.

20 **MS. SPEIDEL:** Okay, perfect.

21 **MS. WISINSKI:** So -- so one thing is having multiple
22 funding sources makes it very complex internally, but more
23 importantly, when we are working with local partners
24 trying to not -- trying to make it as easy as possible for
25 them so that they're not getting caught up in -- well,

1 what funding source? And what do I qualify for? And
2 what's the eligibility? So we really try to work with our
3 outreach folks -- folks to say, just get them the
4 application, send them to us, we'll figure out which
5 funding source they fall into, but you can see here
6 there's different services based on the different funding
7 sources. So we have the investigation, of course, the
8 LIRA indoor environmental investigation that all of the --
9 all of the funding sources provide. But I mentioned a
10 little bit earlier we provide the investigation, but not
11 in all cases can we provide the abatement based on
12 funding, and that one is that Lead in Water Program. So
13 sometimes we can refer over to Lead Safe Home in those
14 cases, but sometimes they don't fall with any funding
15 source so we provide education and we'll provide some
16 cleaning products and we'll go over the report so that we
17 can really ensure that -- that the families are well
18 aware.

19 Then water sampling, of course, is relatively new
20 since our CHIP funding. So we provide water sampling
21 using our and DHHS water sampling protocol in all of the
22 funding sources, with the exception of HUD. Within that
23 water sampling, we can -- we can also do abatement based
24 on sample results. So in 2014 is when the Safe Drinking
25 Water Act reduced the amount of lead allowed in a

1 (indiscernible) surface of a faucet from 8 percent down to
2 .25 percent. So any home we go into and we do water
3 sampling in, we can provide -- we will replace the faucets
4 that are pre-2014 and/or if we were to get exceedance in
5 the sample result outside of our HUD funds and outside of
6 our general funds for lead in water because we don't
7 provide abatement services there. And then depending on
8 the sampling protocol, and this is why we -- we work to
9 make it a lot more health-based, we do a lot of sequential
10 samples so that we can determine if there's an exceedance
11 in that home where in the plumbing system is it. So if we
12 identify an exceedance in a service line, we can replace
13 the service line. And then if we identify any exceedance
14 within the internal plumbing we can replace that, as well,
15 in addition to the faucets.

16 If we go to the next slide, kind of shows where that
17 coverage area for these different lead services are. So
18 in -- in the white lined that -- that's kind of our Lead
19 Prevention Fund Program; they can provide services to
20 anybody that qualifies statewide. It also allows us if
21 it's -- if it's named a Lead Action Level Exceedance area,
22 we can provide those services statewide. And then the
23 Lead Safe Home Program can provide response to any EBL
24 statewide so that's where if there's not a color, that
25 means we are still working statewide as a response, it'll

1 just depend on, you know, the criteria in those cases.
2 You can see here the local grantee program which we
3 mentioned. And we've got Nicole -- Nicole was one of our
4 very first grantees, so we worked with the city of Detroit
5 and city of Grand Rapids and Muskegon were our first
6 grantees so they really helped us develop this program,
7 but you can see where on this map, it shows that we're in
8 eight -- nine different communities and we just added
9 Benton Harbor so that puts us at ten, but the different
10 communities depend on the need. So for example, it's one
11 grantee up in the thumb of Michigan there, including the
12 Bay County, so that's a weatherization program or
13 community -- community action agency that provides
14 services to all of that area. They're one that has the
15 internal contractor model so they have their own crews
16 that go out and do the investigation, or I'm sorry, the
17 abatement and hire out the investigation.

18 We have another similar -- the similar model down in
19 Lenawee in Hillsdale which is in the south side of
20 Michigan which is also relatively rural. Then our other
21 grantees, I'm sorry, the -- the UP which we now just
22 expanded to all of the UP is also a community action
23 agency, but they do hire out their -- their abatement
24 services. So even though we have community action
25 agencies they still have -- can have different models and

1 we want to be flexible so they can be successful. The
2 other grantees, Muskegon, Grand Rapids, Battle Creek,
3 Detroit, and now we have Wayne County Health Department,
4 provide services, mostly to those cities, but we allow
5 them to work outside and within their county, as well.

6 And then you can see there in southwest Michigan in
7 the -- the somewhat light blue, that's the Lead Safe Home
8 Daycare Program. So they had minimal amount of funding,
9 they wanted to make sure that they could focus and be
10 successful so they're working in that area over there.
11 And then you can kind of see the little bitty dark blue
12 dots, that's our HUD -- our HUD target areas. I think we
13 initially started with eight HUD target areas, but
14 fortunately two of those -- two -- two of those target
15 areas actually receive their own HUD grant now so we added
16 one and we're down to six at this point and that's where
17 we can focus our HUD funding. And then the -- oh, the
18 hashtag is the pending grantee area, but at the time of
19 this map we -- we've -- we've secured those areas. So
20 Wayne County, as well as every county in the UP. Next
21 slide, please.

22 Back to you, Carin.

23 **MS. SPEIDEL:** Sure, yeah. So I'm -- I'm going to
24 click quickly through this, I want to make sure we give
25 Nicole time to -- to cover her slides. I think we're --

1 so where are we going is, you know, we saw, like many
2 states have it, we experienced pretty extensive decrease
3 -- our drop in blood lead testing in the state and so
4 we're working with our CLPPP team and -- and local
5 partners to be able to -- to get that back up to where it
6 was and -- and keep it going to even higher levels.

7 Workforce Development. We've talked about that, we
8 continue to try to -- try to look at new initiatives to
9 support that and to build extension of services. We
10 talked about the Lead Prevention Fund. We're trying to --
11 the plan is later this calendar year when things are a bit
12 more settled is to be able to start to build our what we
13 call our libel program, you know, and that's a program
14 where we can hopefully offer an environmental
15 investigation or lead inspection for every home where
16 there is an EBL child, sort of have an engagement protocol
17 with that so that, you know, every family regardless of,
18 you know, where they live or their -- their socioeconomic
19 background has access to the -- to the service which is at
20 a base level that's environmental investigation.

21 So more to come on that later. We just -- we just
22 released an online module for home visitors so looking at
23 folks like foster care, child protective services, it's a
24 -- it's a tool where they can take a brief training, you
25 know, and be able to use those skills that they learned in

1 that online training to be able to as they go into homes
2 in different situations, they can say gosh, there's kids
3 here, this looks like an older home, what do we, where do
4 we send this family for lead services? And so that's been
5 really exciting.

6 And then quality assurance tools and programs, I
7 think we'll talk a bit about just a minute here. I think
8 we can move to the next slide and I'll keep going quickly,
9 watching the clock here.

10 So lessons learned from multiple funding source
11 implementation is -- Courtney alluded to this.
12 Understanding the requirements, the similarities, the
13 differences between the various funding sources, and what
14 -- we'll -- we'll better outline that here in just one
15 second, which I think will be the takeaway for today. But
16 know where the funding policies lie in order of
17 precedence, right, so that, you know, we're not -- we're
18 not misdirecting funds or anything like that. Develop
19 realistic work plans, in timelines for implementation,
20 that's a big -- that's a big piece of it. I know a lot of
21 this is probably -- goes without saying, but they are
22 things that we've had to call out specifically as part of,
23 you know, implementing a new funding source. Plan for
24 workforce shortages, both staffing and external vendors
25 and contractors and partners. Look to local partners to

1 help identify gaps or to -- to gain more community
2 engagement. Clear programmatic policy and procedures.
3 Quality assurance processes and controls. So that's a
4 piece as I mentioned, we have a whole unit that's
5 dedicated to that to make sure that we in Michigan can say
6 we -- we can set the gold standard, we know that we have
7 high quality work, we know that it's going to last and
8 reducing errors in data and that kind of thing and so
9 that's really -- I'm happy to answer more questions about
10 that if we have time. And I think we'll move to the next
11 slide.

12 We have a central intake process so that's a big --
13 that's a big takeaway. If you have multiple funding
14 sources, that is -- spending the time to build a central
15 intake whereas all requests for -- for any service are
16 coming into one central place and then that central
17 process then determines where does it go, what does that
18 particular household receive. That's been huge and that's
19 been something we just -- we just kicked off in the last
20 several months. But especially with the Lead Prevention
21 Fund it makes it much easier to make sure that not -- none
22 of the -- none of the requests are falling through the
23 cracks. Make sure your team understands why we're doing
24 it and why the change in the growth is so critical and so
25 important to get to the end goal of eliminating lead

1 exposure.

2 I'm trying to -- oh, we developed a data application,
3 that's a big one. Having a repository for all of this
4 data, so now it's -- it's -- it's lead in water results,
5 it's our dust samples, it's our project information, the
6 prop -- the occupant information, we now have a central
7 place for that so that we can better make those
8 connections between the health side, the CLPPP side, the
9 blood lead test side, and the environmental side and the
10 actions happening there. And I think I'm going to keep on
11 moving here. The next slide, please.

12 Funding comparison, I know we don't have time to go
13 through all of this. What we tried to do was a -- almost
14 like a crosswalk of looking at the -- the funding sources
15 that we have and how -- where they have similarities,
16 where they have differences. And where -- where it really
17 makes an impact on the programs themselves. So I think
18 one -- one probably pretty obvious point is water, right?
19 Courtney mentioned this that, you know, not all of our
20 funding sources include the -- the water sampling
21 requirement. And so, you know, getting to that might be a
22 point where we can kind of bring some level ground to --
23 to make sure that drink -- lead in drinking water is --
24 is, you know, listed in a source of exposure in that so
25 that we can assess and we can address if needed. You know

1 the program eligibility, we've really built this framework
2 so that, you know, depending on sort of the tier and the -
3 - the socioeconomic background of a particular household
4 that we -- we, ultimately -- we're getting -- we're trying
5 to get to the point that regardless of what that
6 background is that we have some kind of service that we
7 can provide. I -- I think the application processing,
8 what we found with the Medicaid CHIP is that the
9 application process is very streamlined, they just -- we
10 just need basic occupant information and to know whether
11 or not that someone in that household is enrolled in a
12 Medicaid health plan. That makes it really easy, it gets
13 away with the income documentation and all of that. And
14 we've talked a bit about services provided. If we can go
15 to the next slide, please.

16 The primary prevention level, so this is what
17 Courtney talked about where we have specific, you know,
18 under the different grants or dollars that we have, we
19 have you know, targeted communities where we can do
20 primary prevention and then we've got sort of everything
21 else where, you know, before the Lead Prevention Fund was
22 here, you know, there had to be a lead poisoned child in
23 the home in order for us to provide services. And so
24 really looking at how can we better align all of the
25 funding sources to, you know, to -- to get more residents

1 in the program. So we've talked about water, the cost
2 restrictions is a big one. Medicaid CHIP currently --
3 now, I can't speak for the other states, I don't know what
4 other states have as cost caps, but I know here in
5 Michigan we don't have a cost cap on abatement projects,
6 and we know that the costs have gone up because of COVID,
7 because of lack of workforce, supply demand, materials
8 costs and so that's been, you know, having funds that we
9 can rely on to say gosh, this is a really expensive
10 project we, you know, we need to, you know, it's going to
11 cost more than maybe 20,000, right, so that kind of breaks
12 that down. The reporting requirements and then the
13 output, right, so obviously more money that's appropriated
14 the more that you can do with that. And so that kind of
15 just outlines that. Next slide, please.

16 So here's -- here's the takeaway. The funding
17 comparison, these are the big differences, is a mechanism
18 to secure the funding is, you know, for example, Matt with
19 your group, we -- we write a grant proposal every few
20 years and we apply it that way. With the Medicaid
21 dollars, those are dollars that are just sort of re-given
22 each year, so that's a big difference. General fund, the
23 same thing; sometimes we have to advocate for it. The
24 eligibility requirements, similar among funding sources
25 but, again, we built that framework to be able to handle

1 more -- more requests for help across the state. The
2 application documentation, we talked about that. Cost
3 maximums, the coverage area of each of those. The extent
4 of work provided, so Matt, maybe you don't want me to say
5 this out loud. We -- with our -- with our -- our CMS
6 dollars, our CHIP dollars, we've really gone the route of
7 whenever possible to do what lead abatement work, because
8 we know then that the likelihood of us having to come back
9 to make those fixes or repairs again is going to be less
10 likely if we can put a more permanent mechanism in place.
11 And there's always this fine balance with some of our
12 other funding sources of cost -- cost effectiveness
13 versus, you know, do -- trying to do full abatement. So
14 that's something that has been really different between
15 the funding sources.

16 The public notice/environmental review process,
17 that's I think that's primarily only required for our HUD
18 dollars, although we do have to do a public notice now
19 with -- when we have changes to the state plan amendment
20 for CHIP. And then the level of technical assistance, so
21 just looking, again, that has a lot to do with sort of the
22 quality assurance process that we're building and looking
23 to; for example, Courtney's team with the community
24 development grantees, she has staff where the communities
25 can call and say, hey, we have this project, will you put

1 your coat on and come out, put your boots on and come out
2 and take a look at it and advise us on what to do, so
3 that's been -- that's also a takeaway is -- is trying to
4 get to level ground of, you know, what the funding source
5 is and who is providing that technical assistance and
6 quality assurance on the funding.

7 I want to pass to Nicole, I feel like I, yeah, sorry
8 Nicole. I'm trying to talk as fast as possible, over to
9 you.

10 **MS. WYSE:** Okay. Thank you so much, Carin. Thank
11 you for inviting me on, you know, we enjoy working with
12 you and your team on all things lead for the city of
13 Detroit so, again, Nicole Wyse. I'm an associate director
14 at HRD, which is the Housing and Revitalization Department
15 for the city of Detroit and I oversee the Community
16 Development Division which includes our home repair unit
17 which then includes our Detroit Lead Safe Housing Program.
18 So I will try to get through this quickly, but Carin
19 really just talked about all of the same things that I'm
20 going to talk about, but I'm going to give you more of a
21 perspective from the local grantee side and kind of go
22 into a little bit more details, very briefly, for this
23 group.

24 So just some quick facts. It sounds like a lot of
25 you already do work in Detroit so this may not be news to

1 you, but it does help kind of frame the picture for some
2 of the recommendations that we've had based on our
3 experience with different funding -- different funding
4 sources for our program. So, you know, we've got about
5 267,000 occupied single family units in the city. Detroit
6 is full of single family units, 48 percent of which are
7 owner occupied. We've got pretty old housing stock, you
8 can see 89 percent prior to 1979 and 29 percent prior to
9 1940. A lot of the housing stock isn't -- requires some
10 critical repair, has critical repair needs and then you'll
11 also see just comparatively to the statewide average for
12 children who test with the blood level of 5 micrograms
13 high -- or higher, Detroit is -- is double that amount.
14 And also just for reference, about 78 percent of Detroit
15 children are currently insured by Medicaid and then
16 another 57 percent are estimated to receive SNAP or food -
17 - food assistance benefits and I'll explain why that's
18 important. We can go to the next slide, please.

19 So just so you all have a high level understanding of
20 what type of funding the city receives directly, there is
21 other funding through some program partners in the city
22 that also address lead and healthy housing. HRD
23 specifically has of course, participates in the CHIP
24 program and you can see that's on an annual basis, again,
25 an annual allocation. And then we have funding from -- a

1 lot of funding from HUD that's a lot of where we fund most
2 of our lead abatement projects and that's through the
3 Office of Lead Hazard Control and Healthy Homes. But
4 you'll also see I listed that we -- we have CPD on here,
5 the Community Planning Division, because 95 percent of our
6 units who go through these programs receive CDBG, in
7 addition to the funds that come from the Office of Lead
8 Hazard Control and that's important because it triggers
9 some additional eligibility requirements for the city that
10 we'll talk about in the next slide. But there's
11 approximately 22 million right now in funding for lead
12 abatement programs at HRD and this just kind of gives you
13 an idea of period of performance and how many units we
14 anticipate to -- to complete with this funding. Next
15 slide, please.

16 All right. So the fun stuff. So one of the things
17 that I think Carin has touched on all of this, for us is,
18 you know, aligning federal requirements for these programs
19 not -- it doesn't only just provide an administrative
20 burden for grantees to have different requirements, but it
21 actually -- some of the stuff deters some of our
22 applicants from applying to programs. And so some of the
23 recommendations that, you know, we've talked about
24 internally or just how to -- how -- what does it look like
25 to allow applicants who are enrolled -- already enrolled

1 in federal assistance programs, such as Medicaid and SNAP,
2 to automatically qualify for lead abatement assistance, no
3 matter which federal agency is providing the funding, and
4 that is super important. And I gave you those numbers of
5 Detroit children who are getting Medicaid and SNAP right
6 now, and currently because, again, 95 percent of our
7 projects are -- are touched with community development
8 block grant dollars, we have to request a ton of paperwork
9 to income verify applicants and so that deters people who
10 want to apply for the program because we have to
11 demonstrate that they're at 80 percent of the area median
12 income or below. Examples are just bank statements,
13 employment verification, W2s, tax returns, things like --
14 things of that nature which some people just don't have
15 access to, it just becomes a burden and they decide to
16 just bow out of the program and we know how important
17 these resources are to get to our folks.

18 The other option too is I love Healthy Homes funding
19 cause that helps, but the reason why we use so many -- so
20 much CDBGs, one for match requirements, but also two,
21 because of the age of the housing stock in Detroit, when
22 we go into the homes we are dealing with not just lead but
23 a lot of people who need a new roof and need a furnace,
24 their house is not livable; even if we were to do the lead
25 work, their house still would not be livable and so a lot

1 of our CDBG funding and our Healthy Homes funding that we
2 get right now currently from HUD and from the state now,
3 we use that to address those issues. And so increasing --
4 or reducing the need for CDGB and maybe increasing Healthy
5 Homes funding or similar funding really does help to
6 assist the burden of addressing those non-lead repairs
7 that are essential to maintaining the integrity of the
8 lead investment and then also making sure that we keep
9 people in their homes. Without these funds, HRD would
10 cancel a large portion of their applicants due to existing
11 housing conditions.

12 The other thing, again, we've touched on this, but
13 just allowing for lead in water testing remediation across
14 all programs so that there's more of a comprehensive
15 approach. I've heard a lot of folks on presentations
16 previous to us talk about the soil, we're talking about
17 lead -- lead-based paint, talking about water, and so
18 really thinking across organizations and divisions of how
19 that looks in a more comprehensive way so that when we're
20 going into a unit, we're leaving with, you know, a full
21 abatement.

22 The technical assistance, I just have to give Carin
23 and her team an awesome hand clap because the technical
24 assistance that the Community Development Division is
25 providing, it's been amazing, and I think that increasing

1 technical assistance across all programs, even those
2 around like workforce development, when it comes to
3 training workers around lead safe housing practices,
4 things of that nature would definitely help. You know,
5 HRD could -- could have staff turnover and the amount of
6 time it would take to retrain staff, to find staff who
7 already know how to do these -- this type of work could be
8 critical on whether the program would continue or not. So
9 technical assistance is definitely very important to us
10 and I -- I'm mostly a practitioner around HUD funds, so I
11 put examples of like CDBG disaster recovery. They've got
12 a huge technical assistance division. And then again, new
13 grantees because I know as Director Ammon mentioned HUD
14 has a huge amount of money in the last few years, and so
15 you know, providing that technical assistance, I think
16 people get really nervous around lead because they're
17 afraid to make a mistake. And they're afraid to come into
18 compliance issues. I know I've been one of those -- those
19 people before so...

20 And then we talked about eliminating or increasing
21 program unit maximums that align with our current
22 construction market. Detroit was already high, the prices
23 were already high for lead. With COVID that has
24 definitely impacted us significantly and also our housing
25 varies. So we have some pretty large historic homes in

1 the city of Detroit and they cost a lot to be able to do
2 lead abatement. And so just considering that, as part of
3 sort of how these programs can align. One thing I didn't
4 put on here --

5 **DR. ALLWOOD:** Hi, Nicole. I'm sorry this is -- this
6 this is Paul Allwood and I -- I hate to do this and I
7 apologize profusely. It's just been a really interesting
8 presentation. We're running a little long on time so
9 could you -- you think you could possibly wrap up in the
10 -- in the next like 30 seconds? Sorry about that.

11 **MS. WYSE:** Okay. No, that's okay. And my last point
12 was just workforce development. Again, Carin and her team
13 have touched on that, but providing additional training
14 funds to get more contractors and more workforce who can
15 do lead abatement is super crucial to continuing to move
16 forward with these grants, especially with the amount of
17 money coming through for lead abatement.

18 And Paul that's -- that's it so 30 seconds was great.
19 So thank you guys so much for having me on.

20 **DR. ALLWOOD:** And -- and thank you to the three of
21 you there, you know, there's so much in -- in your
22 presentations that were, you know, very informative. So
23 pleased to see that, you know, you are managing all these
24 different funds and, you know, prioritizing activities
25 that are definitely getting to residents who are most in

1 need. So thank you so much for that presentation and I'll
2 turn it back to you Matt. The next topic.

3 **MR. AMMON:** Thank you, Paul. And it's my pleasure to
4 turn it over to Dr. Ruckart to talk about policy
5 approaches to improve childhood blood lead testing rates.
6 Perri.

7 **DISCUSSION ON POLICY APPROACHES TO IMPROVE CHILDHOOD BLOOD LEAD**
8 **TESTING RATES**

9 **DR. RUCKART:** Thank you. So I'm going to talk to you
10 today about the work I did for my doctoral dissertation,
11 and I conducted a study to evaluate the effectiveness of
12 state level policies on childhood blood lead testing
13 rates. Next slide, please.

14 So the goal of CDC's lead program is to prevent
15 childhood lead exposure and lead-related health effects,
16 and as a review primary prevention is defined as the
17 removal of lead hazards in the environment before children
18 are exposed and this is crucial to ensuring that children
19 do not experience adverse health effects. However, in the
20 absence of primary prevention, secondary prevention, such
21 as conducting childhood blood lead testing is vital to
22 eliminating continued exposures and for connecting
23 children to needed environmental, medical, nutritional,
24 behavioral and educational services to mitigate adverse
25 health effects.

1 A recent study found that children under three years
2 of age with blood lead levels at or above 4 micrograms per
3 deciliter who were provided with early learning
4 interventions had higher standardized test scores in math
5 and English in third grade compared with similar children
6 who did not receive interventions. And this underscores
7 the importance of early identification of lead exposed
8 children and connecting them to appropriate services.
9 Next slide, please.

10 Although the American Academy of Pediatrics
11 recommends that pediatricians be aware of local guidance
12 and requirements for blood lead testing, a recent analysis
13 found that public health agencies are not effectively
14 communicating their testing policies to providers, and
15 furthermore statutory requirements are not necessarily
16 enforced. According to a 2017 report, 45 states and the
17 District of Columbia state that they follow universal
18 testing requirements of testing all Medicaid enrolled
19 children for blood lead levels at one and two years of age
20 or between two and six years of age if no record of
21 previous tests. But despite these declarations, the
22 report found that no states achieved 100 percent
23 compliance with Medicaid or state requirements for testing
24 children. And implementation of blood lead testing
25 policies is inconsistent across the states and not closely

1 monitored. Due to the varied state of purchase and
2 resulting testing rates, there is a need to determine
3 which policies are more effective. Next slide.

4 So despite federal and state laws and mandating blood
5 lead testing in children, providers may let their inherent
6 biases dictate which children to test and therefore may
7 misidentify a child who needs appropriate follow-up
8 services. Studies that examine barriers to blood lead
9 testing at the local level found that pediatricians were
10 less likely to test if they believe that adverse health
11 effects did not occur until levels of at least 10
12 micrograms per deciliter, they disagreed with their states
13 testing recommendations, they served a low percentage of
14 Medicaid enrolled patients and they believe their practice
15 was in a low risk area, even if that was not the case.

16 A study done in New York showed that enacting a
17 policy that required reporting of all blood lead tests
18 regardless of level was effective at increasing testing
19 rates from 16 percent to 30 percent in a one-year period.
20 The current analysis helps address a gap in the literature
21 by evaluating which policies are the most successful in
22 influencing providers' testing decisions so that increases
23 in testing rates can be seen on a larger scale. Next
24 slide.

25 Because of lifelong effects on health and economics,

1 preventing lead exposure benefits both individuals and
2 communities. Lead exposure has been associated with lost
3 lifetime earnings ranging as high as \$233 billion,
4 productivity losses of approximately \$267 million, lost
5 tax revenue estimated at between \$25- and \$35 billion for
6 each cohort of lead poisoned children, higher arrest rates
7 with direct total costs estimated at \$1.8 billion, and
8 between \$10- and \$146 million for three years of special
9 education for each cohort of lead exposed children. And
10 these costs were from studies done a few years ago and
11 they're likely higher now. Next slide.

12 One second. This study assessed the association
13 between childhood blood lead testing rates and seven
14 policies. A 2018 report, summarized by state, all
15 childhood lead relating -- related policies that promote
16 testing and they're shown here, metrics which are used to
17 quantify improvements in healthcare quality and health
18 system performance, and in the U.S. the most common is
19 HEDIS, Health plan Employer Data and Information Set, and
20 for lead it's the percentage of children age two who
21 received a blood lead test by their second birthday.
22 Incentives which use financial and nonfinancial rewards to
23 motivate providers to strive for improvements in quality,
24 efficiency and costs. Other managed care organization
25 guidance, which includes using performance improvement

1 plans and value-based purchasing. And several states have
2 developed provider guidelines for blood lead testing in
3 children in addition to the federal Medicaid requirements,
4 these can be mandatory or recommended. Data sharing and
5 coordination across agencies and MCOs which can help to
6 ensure that all at-risk children are identified so they
7 can be tested. Mandatory reporting of data to state
8 health departments can also help to ensure that providers
9 are testing children at required ages. And another tactic
10 that states can employ to encourage testing is requiring
11 proof of tests as a condition for school enrollment,
12 generally for pre-K or kindergarten. However, this
13 requirement may not be enforced. Next slide, please.

14 And I used three datasets in this analysis. CDC
15 surveillance data on the percentage of children less than
16 six years of age whose blood lead levels were tested in
17 2017 and 2018. The 2018 report that summarized the state
18 policies that promote blood lead testing in children and
19 U.S. census data on potential confounders. And the
20 potential confounders examined were housing built before
21 1980, black race, foreign born, education, a population
22 less than six years of age with Medicaid coverage. Next
23 slide, please.

24 And only 33 states were included in the primary
25 analyses because complete testing data were available for

1 2017 and 2018 at the time the analyses were conducted and
2 these states are shown in blue. Five additional states
3 shown in green were included in a sensitivity analysis
4 using only 2017 data which were obtained from the state's
5 websites. 2018 data were unavailable. Next slide,
6 please.

7 So the testing rates were assessed as a continuous
8 dependent variable using linear regression to compute
9 regression coefficients, 95 percent confidence intervals,
10 and P values for unadjusted and adjusted models and
11 collinearity among the potential risk factors was assessed
12 to determine which variables to consider for including in
13 the adjusted models. Confounding was evaluated using a 10
14 percent change in the estimate rule, and by this I mean if
15 parameter estimates for testing rates differ by 10 percent
16 or more in unadjusted and adjusted models for most of the
17 policies, then the risk factor was included in the fully
18 adjusted models. Results from this analysis were
19 interpreted based on the magnitude of the point estimates
20 and coherence. When considering other contextual factors,
21 a non-statistically significant result may still provide
22 useful information for public health action, and
23 conversely, a statistically significant result may lack
24 scientific and public health significance. Next slide,
25 please.

1 The table shows the range and average percentages for
2 the potential confounders included in the analysis. The
3 percent of the population with at least a high school
4 diploma was highly negatively correlated with the percent
5 of the population less than six years of age with Medicaid
6 coverage. Therefore, the educational variable was
7 excluded from the fully adjusted models based on
8 information in the literature which indicated that
9 providers used the percentage of their population and
10 rules in Medicaid to make testing decisions. The data did
11 not show correlation between race and pre-1980 housing or
12 between race and the population less than six years of age
13 with Medicaid coverage. The number of policies range, per
14 state, range from one to five, with an average of three
15 per state. And the most frequent policy was provider
16 guidelines in 35 states, followed by mandatory reporting
17 of data to state health departments in 23 states. Metrics
18 in 20 states and incentives in 14 states. Next slide.

19 The strongest unadjusted result was for requiring
20 proof of testing for school enrollment, followed by MCO
21 guidance and metrics, and these policies were also the
22 strongest unadjusted results in the sensitivity analysis.
23 Next slide, please.

24 In the fully adjusted models, metrics had the highest
25 regression coefficient followed by other MCO guidance and

1 mandatory reporting to state health departments. Metrics
2 was also strongest adjusted result and sensitivity
3 analysis. Next slide, please.

4 So to summarize, requiring proof of testing for
5 school enrollment was the strongest association with
6 higher testing rates. Metrics and other MCO guidance were
7 also associated with higher testing rates. Only five
8 states in this analysis were reported to require proof of
9 testing for school enrollment. Ten states were reported
10 to use MCO guidance and 20 used metrics, so there is much
11 room for expansion of these policies. Enacting and
12 enforcing a policy that requires proof of blood lead
13 testing for school enrollment is likely to overcome
14 challenges, provider space, and the scheduled testing
15 appointments when parents either decline or miss the
16 appointments. This is because there will be a strong
17 disincentive for parents who do not follow up. The
18 identified best practices to increase testing rates are
19 being shared with appropriate partners so actions can be
20 taken to increase rates, and increased testing is likely
21 to result in identifying more lead exposed children. When
22 children are connected to appropriate interventions,
23 they're more likely to exhibit academic readiness, spend
24 less time in special education, graduate high school, and
25 have reduced contact with the criminal justice system.

1 Next slide, please.

2 Additionally, the CDC lead program is undertaking
3 several initiatives that we believe will have a positive
4 impact on testing rates. In addition to lowering the
5 blood lead reference value, these include pursuing
6 improvements in our surveillance system and methods to
7 improve data quality and reportability. We will soon
8 implement a feed of blood lead surveillance data to the
9 environmental health tracking portal, and we're training
10 our funded programs on continuous improvement of
11 surveillance and reporting processes. We've surveyed our
12 funded programs to assess the impact of the pandemic and
13 the lead care recalls and we'll share best practices and
14 lessons learned and if the impact of COVID-19 continues,
15 we plan to conduct follow-up studies to identify barriers
16 to testing and possible solutions.

17 We plan to publish new online training modules which
18 will be available on demand. They cover a variety of
19 topics and are presented from over 20 subject matter
20 experts in the field of lead poisoning prevention. We're
21 also creating case vignettes based on real world increase
22 that we've received to highlight lesser-known ways that
23 children are exposed to lead. We're expanding outreach to
24 the healthcare providers by creating ads from Netscape
25 that encourage testing at-risk children. We're

1 collaborating with state Medicaid directors, proposing
2 additions to Medicaid -- to the Medicaid course set for
3 2023, and engaging with pediatric health -- environmental
4 health specialty units, poison control centers, nursing
5 practitioners association and others. We're planning to
6 release the LERI, the Lead Exposure Risk Index, later this
7 year which is a new tool to help identify in that
8 community risk for lead exposure. Next slide, please.

9 So this work is only possible through your help and
10 guidance and although it's challenging, we remain
11 optimistic that by working together we can overcome these
12 challenges. I want to sincerely thank you all. Next
13 slide, please.

14 I'd like to pose some questions for discussion. What
15 can CDC do to encourage increased testing among providers?
16 What can we do to address barriers to testing? And how
17 should we promote results of this analysis?

18 **MR. AMMON:** We will return time to you, so please
19 feel free to respond, anybody here, to any of the
20 questions. Thank you very much for that presentation, Dr.
21 Ruckart. Would anybody like to address any of the
22 questions posed? This is obviously of -- of topic,
23 including somebody mentioned today that there being a news
24 article on the very topic. Paul?

25 **DR. ALLWOOD:** Thank you very much, Matt. And thank

1 you, Perri, for this very, very, you know, wonderful and
2 enlightening presentation. You know, like Perri
3 mentioned, you know, the there are several things that
4 we're doing at CDC, you know, through our development --
5 developing training through our expanding partnerships and
6 relationships with key -- key -- key partner groups, like,
7 pediatricians and public health practitioners. You know,
8 we're hoping to continue to rate, build awareness and to
9 continue to keep the word out there that increasing
10 testing is a high priority for the CDC and I'm sure it is
11 for -- for many of you who practice in -- at the state and
12 local level, as well. And, you know, along those lines,
13 you know, during the latter part of last year when we were
14 seeing some significant shortages in the availability of
15 test kits for the point of care test -- testing devices.
16 We -- we put out a health alert message that reminded
17 everyone that, you know, we felt like there was enough
18 testing capacity, and still do feel that way, in the
19 traditional labs to -- to take up the demand and that a
20 (indiscernible) sample could be -- could be taken and then
21 analyzed using a higher complexity test, such as the
22 ICPMS.

23 So, if anyone, you know, after this meeting have any
24 thoughts, you know, with respect to these questions that
25 Perri has posed, we'll be really very happy to hear from

1 you and you can certainly email us at the LEPAC mailbox
2 and we'd be happy to receive your -- your comments and
3 your advice.

4 **WORKGROUP DISCUSSION**

5 **DR. ALLWOOD:** The next part of the -- for the next
6 part of the meeting, I would like to entertain a
7 discussion on possible opportunities for establishing a
8 new workgroup under LEPAC. And as all of you know that --
9 that are members, the -- the Charter governing LEPAC is
10 quite broad and there are many potential topics that a
11 workgroup could cover. However, depending upon the level
12 of staffing support needed by LEPAC, we might only be able
13 to support one workgroup at a time. Since we can, can
14 most likely only have one workgroup, we'd like to make
15 sure that -- that any workgroup that's proposed isn't
16 duplicating work that's going on at other agencies or
17 that's happening on other committees; for example, like
18 the President's Task Force on Environmental Health Risks
19 and Safety Risks to Children.

20 Workgroups are an opportunity for LEPAC to help drive
21 policy change or actions to prevent or reduce lead
22 exposure. For example, last October CDC lowered the blood
23 lead reference value from 5 micrograms per deciliter to
24 3.5 micrograms per deciliter based in large part on
25 LEPAC's blood lead reference value workgroup's review of

1 the evidence and making recommendations to the Secretary
2 of Health and Human Services that the blood lead reference
3 value be updated.

4 We are very grateful for your work and we would like
5 to continue using your skills, knowledge and expertise to
6 help us think about how to make -- make sure everyone has
7 a fair and equitable opportunity to attain their highest
8 health. We would like any proposed workgroup to also have
9 a clear use case or clear deliverable in mind. And we
10 would like also, you know, any workgroup that -- that is
11 proposed to be clear, in terms of what recommendations are
12 likely, and that would of course allow CDC to take
13 actions, you know, in response to those recommendations as
14 -- as approved by the, the HHS Secretary to further
15 advance our efforts to prevent childhood lead poisoning.
16 And then before I -- I invite our committee members to
17 speak on -- on the topic of workgroups, let me just take a
18 quick review of the LEPAC charge. So you know primarily
19 the charge includes reviewing federal programs and
20 services available to individuals, communities -- and
21 communities exposed to lead. Reviewing current research
22 on lead exposure to identify additional research needs.
23 Reviewing and identifying best practices or the need for
24 best practices regarding lead screening and the prevention
25 of lead poisoning.

1 And you heard quite a bit about, you know, this --
2 this particular aspect of our charge today. In fact,
3 Perri's presentation went into some -- some depth on that
4 topic as did, you know, one of the public comments that we
5 received. This in the afternoon -- early afternoon.
6 Another aspect of our charge is identifying effective
7 services, including services related to healthcare
8 education and nutrition for individuals and communities
9 affected by lead exposure and lead poisoning, including in
10 consultation with, as appropriate, the Lead Exposure
11 Registry as established in Section 2203, Part B of Public
12 Law 114-322. And finally, our charge also allows us, the
13 LEPAC's charge also allows it to undertake any other
14 review or activities that the Secretary determines to be
15 appropriate.

16 So with that I would like to open up the floor for
17 discussions from our -- our -- our voting members, as well
18 as our non-voting liaison members. If you could just
19 please raise your virtual hands if you would like to offer
20 any thoughts or recommendations regarding a new workgroup
21 for the LEPAC. So Howard, did you -- did you have a
22 thought?

23 **DR. MIELKE:** Yes.

24 **DR. ALLWOOD:** Yes.

25 **DR. MIELKE:** I certainly think that we need to

1 advance our understanding about air lead as it relates to
2 childhood lead exposure. In air lead soil, it's really a
3 cycle of air lead, soil lead and exposure back to the air
4 that we certainly -- I -- I have done a number of -- a
5 number of studies on that topic and I would hope that we
6 could advance the understanding of, and -- and not only
7 the understanding of, but also finding ways to prevent
8 exposure from the legacy sources that are especially found
9 in urban environments. So maybe a workgroup on that topic
10 would be very appropriate.

11 **DR. ALLWOOD:** Okay. Thank you so much, Howard. I'm
12 sorry, did you have anything else that you'd like to
13 share, Howard?

14 **DR. MIELKE:** Yeah. I think I should be more
15 emphatic, it's not just that it would be appropriate, but
16 it must be done or I don't think we're going to continue
17 making much progress, especially with the -- the
18 disparities we see are related to the exposures from the
19 environment and we're not -- I'd like to see all our
20 cities maps, for example. The Europeans are doing a great
21 job on mapping cities, but we can't seem to get the same
22 movement towards mapping cities. We've just dismissed the
23 use of the USGS as an entity for, I mean, in the city
24 because their mission doesn't include urban environments
25 and I'd love to -- I'd like to see that move forward. I

1 think there will be a lot of surprises, and ones that may
2 not be as hard to handle as -- the present policy seems to
3 indicate that doing anything with the outside environment
4 seems to be out -- out of the range of what our agencies
5 to be working on. Anyway that's...

6 **DR. ALLWOOD:** Thank you so much, Dr. Mielke. Any --
7 any comments or -- or, you know, any additional discussion
8 related -- related to Dr. Mielke's suggestion?

9 **DR. MIELKE:** Well, let's --

10 **DR. ALLWOOD:** Yeah. I'm having a little trouble. If
11 you're raising your hand and I'm not calling on you, it's
12 because I haven't seen you. So if you've got something
13 that, you know, I invite you to kind of shout it out. If
14 I -- if you're -- if you have a hand raised and you
15 haven't heard from me. Now -- now, I do see a hand raised
16 and I can't tell who it is, but please feel free to speak.

17 **DR. RUCKART:** It's Howard.

18 **DR. ALLWOOD:** Oh, it's -- it's Howard. Oh, I'm
19 sorry. Okay. Howard, do you -- do you have additional
20 comments to make? Okay. All right. Anybody else? Any
21 other thoughts about workgroups or, you know, or
22 workgroups that might be appropriate for us to consider
23 creating?

24 **DR. RUCKART:** Anshu?

25 **DR. MOHLLAJEE:** Hi. I do believe that Dr. Mielke's

1 suggestion is a great suggestion; however, my suggestion
2 might seem to be opposite of that suggestion. But it's
3 not -- but to actually -- maybe a working group that looks
4 more at what I would label as non-housing exposures and so
5 exposures that are occurring among our immigrant
6 communities and our refugee communities and trying to find
7 strategies around the prevention and kind of the
8 communication messages around that.

9 **DR. ALLWOOD:** Thank you for that, Anshu. If I might
10 just ask, Anshu, when you say non-housing exposures, you
11 know, what --

12 **DR. MOHLLAJEE:** Oh, yes, like cosmetics, spices,
13 things of that nature.

14 **DR. ALLWOOD:** Okay. I was thinking also, would it
15 include like non-housing situations too, such as like
16 schools or daycares and other venues, or not?

17 **DR. MOHLLAJEE:** I was going to add occupational
18 exposure in that. The schools, I'm not exactly sure. I
19 think that's a little --

20 **DR. ALLWOOD:** Okay.

21 **DR. MOHLLAJEE:** -- that. Yeah.

22 **DR. ALLWOOD:** All right.

23 **DR. MOHLLAJEE:** That's not normally how we do it in
24 California so... Normally, we would then say if we found
25 something in a -- in a daycare facility that was related

1 to peat, dust, soil or water then we would label it as,
2 you know, a lead hazard in a housing, in quotation marks.

3 **DR. ALLWOOD:** Okay. Thank you so much for that. Any
4 -- any comments on -- regarding -- regarding Anshu's
5 suggestion for a workgroup? Okay. Again, if your -- if
6 your hand -- if you have a hand raised and I haven't
7 called on you it's probably because I'm not seeing you so
8 feel free to speak up if you have a suggestion to offer.

9 **MS. JOHNSON:** Hi. This is Karla and, you know, one
10 of the things that I think would be really nice to look
11 at, have a workgroup that's -- is to really look at some
12 of the -- the longer term educational initiatives or
13 educational outreach to families and children who have
14 been lead poisoned, you know, and I -- and I think I've
15 said this before, it's like -- it seems like that, at
16 least in -- in my world, and when I -- and I'm dealing
17 with lead poisoning a lot, is that the education on the
18 outreach tends to stop once the child is six or seven
19 years old, but we talk about the long-term impact. And so
20 what kind of initiatives or outreach or educational -- I
21 don't know -- I don't even know what the word is -- for
22 families to look at in the long-term, or that, you know,
23 the -- the lifetime effect of -- of this. What those --
24 those issues or concerns that may come up. I hope that
25 made sense.

1 **DR. ALLWOOD:** Yes, yes, it does. And thank you for
2 that suggestion. Any -- any question on -- on that,
3 Karla's suggestion or any comments? Okay. Anything else?
4 Any other suggestion that we -- that you would like to
5 share?

6 **MR. AMMON:** Paul, this is Matt. One additional one
7 is, you know, we've heard a lot about lead exposure in
8 schools. I know we're not making decisions, but just in
9 terms of referring that into the mix because we've heard a
10 lot about lead in schools and the focus on -- not in the
11 home environment, but in the school environment.

12 **DR. ALLWOOD:** Thank you. Thank you, Matt. Yeah.
13 That has, you know, been quite an area of focus and very
14 topical and, yeah, thank you for putting that on the
15 table, Matt. Any -- any questions on Matt's suggestion or
16 any -- any -- any thoughts or comments on it? Okay.
17 Hearing none. Oh, I'm sorry. Is someone coming in?

18 **DR. MIELKE:** Yeah. I -- I am. Along with schools, I
19 think childcare centers need a lot of attention because
20 that's a location for really early childhood exposure.

21 **DR. ALLWOOD:** Thank you. Thanks, Howard. And Matt,
22 so your suggestion has just been expanded a little bit to
23 also include daycares. Is that something that you are
24 okay with?

25 **MR. AMMON:** Yep. Makes sense to me.

1 **DR. ALLWOOD:** Okay. All right. Anything else from
2 the LEPAC members, including our affiliates? Any other --
3 any other thoughts or ideas about workgroups that we might
4 consider?

5 **MS. BARNHILL-PROCTOR:** This is Tammy Proctor. I
6 think the workgroups that have been suggested are good
7 workgroups. I -- I really would encourage that we
8 strongly make sure that we really think through our
9 communication strategies and our outreach strategies for
10 how we communicate the need for screenings for young
11 children and how -- what are some of the resources out
12 there for when you start tapping into childcare centers
13 and places like that. Really be clear on what the
14 resources are and -- and how the resources can benefit the
15 centers and children so...

16 **DR. ALLWOOD:** Thank you for that, Tammy. Yes, you're
17 absolutely correct. We have to be clear in our
18 communication. Okay. There's still, you know, time left
19 on the agenda for additional suggestions if there are any
20 so I'll invite committee members to share your thoughts or
21 your ideas for any workgroup that we might -- you might
22 consider creating.

23 **DR. MIELKE:** Has -- has there been follow-up on
24 Michael Kosnett's suggestion of a subcommittee to -- for
25 prevention of occupational lead exposure?

1 **DR. ALLWOOD:** So thanks for mentioning that, Howard.
2 So, you know, you know, we all heard that Dr. Kosnett's
3 public comment, and, you know, the member -- members would
4 have received, you know, his -- his petition for a
5 workgroup and this is the opportunity to, you know, to
6 hear from all of you, you know, what your -- your thoughts
7 are, and, you know, how you feel about what -- what --
8 what -- what is being petitioned. So do you have any --
9 any perspectives on -- on that, Howard?

10 **DR. MIELKE:** I do. I've worked with families that
11 live in areas that normally you wouldn't expect to see
12 much lead exposure. It turns out the breadwinner in the
13 family, the father was doing paint work and sanding work
14 and when he'd come back, he -- he kept the clothes on that
15 he was working at the -- at the job, bringing it back home
16 and then the kids would come running out and hug him and
17 he hadn't -- he was carrying an enormous burden of lead on
18 his clothes and we suddenly -- we realized that that was
19 part of the problem. The lead burden being brought into
20 the home as a result of the work -- the workplace which is
21 a workplace that is now painters, basically, see a lot of
22 painters in New Orleans, often Hispanic painter --
23 painters that are sanding and they know that it's
24 dangerous but they don't have any other jobs. I don't
25 know how to, you know, develop a program on that, but it

1 certainly needs to be an awareness. I would still put the
2 emphasis on children's exposure only because it's such a
3 long life exposure that's taking place or long life
4 consequences of early childhood exposure, but adults need
5 it -- need to be aware, as well, and certainly women. The
6 other experience I've seen is people doing lead -- they're
7 working with lead in glass and making some beautiful glass
8 work windows and they were causing an enormous amount of
9 exposure within the household, especially in the dust in
10 the work -- workplace and the children were going into
11 those areas. I've never seen much discussion about that,
12 but I'm sure it is -- it's something, excuse me, I -- I
13 just tested positive for COVID so if I run into
14 difficulties, sorry.

15 **DR. ALLWOOD:** Sorry, sorry to hear that -- that
16 Howard and hope you're feeling, you know, better and I'm
17 glad you were able to join despite, you know, not feeling
18 at your best. So -- and thank you also for -- for the
19 comments that you offered in relation to the -- to the
20 petition and the -- the comments that we heard today.
21 Does anybody else have any -- anything to add or any --
22 any questions? I know I've heard from several of you on
23 the, you know, the question of -- of workgroups that might
24 be considered, but I think there's still several people
25 that I have not heard from and, you know, this would be

1 your opportunity to -- to -- to share on this -- this
2 topic so -- so we still have a little bit of time and, you
3 know, maybe I'll just allow a couple more minutes for --

4 **MR. AMMON:** We have two. We have Jill and Patrick.

5 **DR. ALLWOOD:** Yes.

6 **MR. AMMON:** Jill will be first.

7 **DR. ALLWOOD:** Yes.

8 **DR. RYER-POWDER:** So -- so I -- I -- I think the --
9 the occupational workgroup would be a -- a great idea and,
10 and very beneficial. I, you know, based on the work with
11 the blood lead reference value and driving policy if -- if
12 that workgroup could come up with, with evaluations
13 regarding what would be safe levels of exposure in the
14 workplace and perhaps influence OSHA levels which are --
15 which are really old and based on blood lead levels of
16 like 40 or 50 micrograms per deciliter, I think that would
17 be really valuable. The -- not to mention out here the
18 Proposition 65 level for reproductive hazards is -- is
19 based on that old OSHA occupational level. So certainly
20 that Prop 65 level is not protective of developmental or
21 reproductive system effects. You know, in regards to -- I
22 -- I know children are very important for -- for LEPAC and
23 LEPAC's charge, but -- but, you know, for the occupational
24 exposure it's women of childbearing age who are obviously
25 affecting the fetus and also I, you know, a lot of people

1 brought up the -- the issue of men bringing home lead on
2 their clothing and on their shoes and children being
3 exposed in the home. So you know, for those reasons and
4 I'm -- I'm sure a lot of other ones I think that
5 occupational workgroup would be really beneficial.

6 **DR. ALLWOOD:** Thank you, Jill. Appreciate your
7 comments. And we have another person wanting to speak on
8 this.

9 **DR. RYER-POWDER:** Well, you're welcome.

10 **DR. RUCKART:** Yes, it's Patrick.

11 **DR. ALLWOOD:** Yes, Patrick.

12 **DR. PARSONS:** So I -- I actually didn't get to see
13 Dr. Kosnett's report, but I -- I think he raises a very
14 important issue and one that really doesn't get aired very
15 much. So I think that a workgroup to look at occupational
16 health exposures is important, but there's a lab aspect to
17 this that I would like to bring to the table. You know,
18 another hat that I wear for the New York State Department
19 of Health, like, I've looked at the standards for clinical
20 laboratories and we have specialty standards for blood
21 lead labs and we make it clear there that those test
22 reports need to be transparent about what is elevated for
23 adults, regardless of whether they work in industries with
24 lead, or whether it's a pregnant mom. And we've had
25 difficulty with some laboratories that serve the

1 construction industry trying to get away with 40 as being
2 elevated. That's really disingenuous and so we -- we --
3 we say that, well, when it was five, five represents
4 elevated for adults too, and I rather suspect that 3.5 is
5 elevated for the vast majority of the -- of the adult
6 population in the U.S., and so I think that -- that
7 laboratory test reports have to be transparent about what
8 is elevated for adults, regardless of whether they work in
9 the industry. Now, health standards in industry is a
10 different issue. And yes, they are woefully out of date
11 and so I think that maybe a workgroup should pull in
12 expertise from NIOSH and from OSHA. But I think that, you
13 know, the reality check is that you're forgetting -- but
14 when the federal government moves rather slowly with
15 regulations and it's -- it's clear that, you know, you
16 know, OSHA's it's -- it's -- is very slow. But you know,
17 this is a group that has some, you know, role to play
18 here, to advise the federal government of where we need to
19 make changes, quickly. So I think that's one of them. So
20 I think that this is a -- a worthwhile effort I -- I would
21 certainly support.

22 **DR. ALLWOOD:** Thank you so much, Dr. Parsons. And
23 appreciate your comments and just by -- just by way of
24 noting, the LEPAC does have an OSHA member, but she was
25 not able to join us today. Yeah. Did I -- and I still --

1 is there anyone else that wants to comment on this that I,
2 you know, I apologize, I -- I can't see the hands.

3 **DR. RUCKART:** Jamie.

4 **MR. MACK:** Jamie Mack. If I can make a quick -- a
5 quick comment?

6 **DR. ALLWOOD:** Yes, Jamie. Yes, of course.

7 **MR. MACK:** I just want to put out there that I think
8 that the discussion about outreach and education is very
9 important, especially in, you know, the aspect of
10 increasing compliance with the testing rates that I think
11 a lot of states are seeing challenges with. And I really
12 appreciated the presentation we saw a little while ago,
13 but I think that might be a very worthwhile area to
14 explore, as well.

15 **DR. ALLWOOD:** Thanks Jamie. I -- I agree. All
16 right. Is that everybody? Does anyone else want to get
17 in? We -- we have maybe a little less than a minute now
18 but still enough time to hear from anybody else that has
19 something that they really want to put out there and has
20 -- hasn't had -- hasn't done that yet. Okay. On my
21 screen, it's saying that two participants have hands
22 raised. I can't see which two or is it still a -- it's a
23 leftover -- leftover from before?

24 **DR. RUCKART:** Jamie's is still up, but Jeanne also
25 has her hand up.

1 **DR. ALLWOOD:** Oh Jeanne, oh yes, Jeanne. Please go
2 ahead.

3 **MS. BRISKIN:** Hi. I'm sorry I was unavoidably pulled
4 away during part of the discussion. Would it be possible
5 to either verbally or follow up in writing, just a quick
6 list of the -- of the ideas that are on the table because
7 unfortunately I missed a number of them and we don't have
8 to take up time now if that's not appropriate. Thank you.

9 **DR. ALLWOOD:** Okay. All right. Sure Jeanne, you
10 know, I'll -- I'll leave that up to Matt as he gets into
11 the wrap-up discussion. And you know, you know, he may be
12 able to share a little bit on -- on the list, if not now,
13 we will certainly follow up and provide you with the
14 suggestions. And with that I see that we are time for --
15 for this part of the agenda and so I'm going to turn it
16 back over to our Chair, Matt Ammon.

17 **WRAP UP AND DISCUSS TOPICS FOR NEXT MEETING**

18 **MR. AMMON:** Thanks, Paul. And thank you to everyone
19 on this call who was able to make it and -- and
20 participate and listen. I know every time we have these
21 meetings I learn something new and, you know, I always am
22 amazed at how much work and how much dedication that --
23 that there is in terms of mitigating the effects of -- of
24 lead and -- and everything that we are doing collectively
25 at the federal, state, local, nonprofit, all -- all

1 sectors are really working toward, you know, the goal of
2 addressing lead and lead exposures. And -- and today we
3 learned a lot, you know, not only in terms of updating
4 where we are on the BLRV implementation.

5 In terms of Flint and -- and where they are in their
6 progress. Hopefully, you know, the word Flint isn't
7 synonymous with the bad, but it's synonymous with the
8 opportunity and the good and what they've been able to do
9 and accomplish and to me in a pretty short timeframe, but
10 it's an amazing learning experience I think that many
11 jurisdictions certainly can learn from.

12 And then new emerging issues that we learned from
13 Clarksburg, West Virginia. And I know when I received an
14 email alert from what was going on, you know, we
15 immediately jumped on and -- and asked how can we help and
16 engaged our regional folks to make sure that we were a
17 part of whatever information and solution could be brought
18 to help solve that problem. Then we learned of course
19 about the Bipartisan Infrastructure Law and -- and really
20 all the work that will be coming down the pipe in terms of
21 -- of -- of lead in water and replacing of lead service
22 lines. And you know the one thing that did strike me is
23 that, you know, when you -- when you, typically you know,
24 when you hear about oh, a law passed. Oh well, we won't
25 be able to implement it for ten years, you know, but the

1 fact that the money is flowing already and Jamie said, you
2 know, that we're -- we're gearing up. We're getting
3 ready, you know, we're -- we're making sure everything is
4 in place and that's really encouraging to hear. Again,
5 just because, you know, a lot of times when you hear about
6 federal anything that passes at the federal level, how
7 long it takes to at least get the initial money out the
8 door, and I'm not just talking about our CBD dollars which
9 was commented on earlier.

10 And then hearing all the great work that we're all
11 doing, collectively all of us, and hearing all the work
12 that we're doing related to lead and, and other health
13 issues. You know, it's very encouraging that -- that --
14 that we can -- if -- when we share and also learn from
15 each other and hear what each other's been doing and
16 realize that, oh, there's another part that I can join or
17 how can I help out, you know, I think that's the
18 fundamental question that I always have. And how exactly
19 can we help?

20 As we heard from Dr. Mielke on legacy lead, lead in
21 soil, and air and blood, very deep and rich conversation
22 and really, a -- a great showing of the -- the huge amount
23 of research that has been done in that sector and
24 certainly what opportunities we can look forward to.

25 And then of course we heard from our grantees, you

1 know, grantees at the local level, and how are they
2 managing these issues, and what are they doing? What do
3 they need from us? Clearly, we're not helping them much
4 when it comes to having to navigate not only all the --
5 the funding sources in the various aspects of each one of
6 those, but when you have to create a table that says this
7 is what we can do with this funding, this is what we can
8 do with this funding. Yeah, yeah, I think that's a -- a
9 charge back to us to say, well, how can we make
10 improvements? And we -- we're starting to do that, you
11 know, one of the things that I didn't want to, because we
12 ran out of time, was just talk about the income
13 eligibility aspect of that work and -- and realizing that
14 we have differences in income eligibility, you know, both
15 at the HHS level with federal poverty level and then ours,
16 of course, in area median income and how can we have
17 parity with that and alignment with that and, you know,
18 asking Congress to really say, well, if you're already
19 eligible under one program, other means tested programs,
20 shouldn't you be eligible under other federal programs.
21 And trying to make sure that -- that that work sinks to
22 the local level to make it easier for them to just use the
23 money, like, use the money to focus on improving families,
24 children and communities, right. I think that's -- that's
25 what it's all about. And as part of that, you know, we --

1 we heard from Dr. Ruckart in terms of, you know, what can
2 we learn in terms of how do we improve -- improve our --
3 our approach to blood lead testing? How can we -- how can
4 we increase those, you know, you know, the last two years,
5 two and a half years have been -- have been terrible in
6 terms of the number of kids tested, but even before then
7 there were still vast amounts of opportunity to increase
8 testing which certainly helps focus on where we are in
9 terms of -- of providing resources and where we need to
10 be.

11 And then the last discussion is, you know, where --
12 where are there other opportunities that we can work in
13 terms of -- of putting together additional workgroups and
14 -- and Jeanne my -- my list that I have and I'm not sure
15 if I got all of them, but we -- it was proposed to have an
16 air lead and outdoor environment-type workgroup, of
17 course, the occupational lead exposure which we not only
18 have a petition on, but we also talked about that
19 ourselves. Non-housing exposures related to cosmetics and
20 -- and other things and cultural remedies, things of that
21 nature, lifetime effects, you know, showing the long-term
22 effects of lead exposure, schools and childcare centers as
23 a focus and also a focus on kind of -- kind of layering on
24 top of all that are the communities, I'm sorry,
25 communication and outreach for screening and -- and having

1 parents and medical providers giving them enough
2 information and good information and to encourage that to
3 happen outside of universal screening. All of those
4 things certainly we'll be taking under advisement and
5 consideration.

6 So that's -- that's how the day went. It was a -- it
7 was a really great agenda and I appreciate everyone's help
8 and I appreciate CDC tremendously in putting all this
9 together and making this run seamlessly, except for me
10 getting the time wrong. Trying to give you guys more
11 time. But I appreciate everything that you all
12 contributed today, and are doing, and will be doing, and I
13 look forward to our future discussions and really our
14 future work together. I think there's a tremendous amount
15 that of -- that we've accomplished, but also that we still
16 need to be focused on. So I'll pause for a second. I
17 know I'm very close to time, but I want to make sure if
18 anybody else wants to provide closing comments before we
19 adjourn.

20 **DR. ALLWOOD:** Hey Matt, I'd just like to, you know,
21 echo some of your -- some of your words regarding the way
22 the meeting was -- was conducted today. For, you know,
23 the variety of presentations that we had the very, very
24 useful and informative, you know, presentations that came
25 from just about everybody that -- that participated in the

1 meeting today. Also really, you know, pleased to see that
2 folks were willing to put forward their ideas for
3 workgroups and, you know, we're quite thoughtful about the
4 different types of workgroups that we might consider. And
5 like you, Matt, you know, I -- I am really looking forward
6 to -- to, you know, continue to work of this community --
7 of this committee. And, you know, for partnering and
8 working with -- with all of -- all of the members. I also
9 wanted to just, you know, make special -- special
10 acknowledgement of the -- the fact -- the first meeting
11 that has our non-voting liaison members and that, you
12 know, I -- I, you know, offer my thanks to all of you who
13 have really brought your voices to this meeting in a very
14 meaningful way, offered, you know, great comments and
15 asked really great questions and I'm certainly looking
16 forward to -- to having you with us again in the future.
17 Thank you all.

18 **DR. BREYSSE:** And if -- if I could just say a few
19 words to wrap up as well, myself. I want to -- I want to
20 thank everybody again for participating and I -- I also
21 want to congratulate the -- the staff that Paul put
22 together and others put together for the meeting. It was
23 a well-run meeting and well thought out. Great meeting.
24 And I appreciate all your time and I appreciate your input
25 and I look forward to next time as we start to move the

1 needle forward. Thank you.

2 **MR. AMMON:** Thank you, Dr. Breysse. And one day
3 we'll see each other and be together, again.

4 **DR. BREYSSE:** Most -- most people don't know that
5 when I first started my -- my job, I would go to meeting
6 after meeting after meeting. I think every other meeting
7 I was on the platform with Matt. So it almost seemed like
8 I was -- everywhere I went he was around -- I was
9 shadowing Matt or Matt was shadowing me.

10 **MR. AMMON:** Yeah.

11 **DR. BREYSSE:** So having been like three years or so
12 now, without seeing Matt or Chris has been -- been a bit
13 of a challenge for me, but we'll -- we'll -- we'll --
14 we'll get over that sometime soon, I hope.

15 **MR. AMMON:** We will. I hope too. Well with that,
16 again, I appreciate everybody's work and help and with
17 that, I'll close out the meeting with hope to see you all
18 soon. Take care.

19 **DR. RUCKART:** Thank you, bye.

20 (Meeting adjourned at 4:25 p.m.)

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CERTIFICATE

STATE OF GEORGIA
COUNTY OF FULTON

I, Steven Ray Green, Certified Merit Court Reporter, CVR-CM-M, CCR 2102-A, hereby certify that the foregoing pages constitute a true, correct and accurate transcript of the hearing heard before me, an officer duly authorized to administer oaths, and was transcribed under my supervision.

I further certify that I am a disinterested party to this action and that I am neither of kin nor counsel to any of the parties hereto.

In witness whereof, I hereby affix my hand on this, the 3rd day of June, 2022.

Steven Ray Green, CVR-CM-M, CCR 2102-A