## Voluntary School and Child Care Lead Testing and Reduction Grant Program – Best Management Practices Workshop & Roundtable

**November 1, 2022** 

US EPA Office of Water,
 Office of Ground Water and Drinking Water



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## **Zoom Orientation**





- Click [Video] to start/stop your camera
- Click [Participants] list to see other attendees
- Click [Chat] to submit questions and see responses
- Click [Reactions] to react or raise your hand.

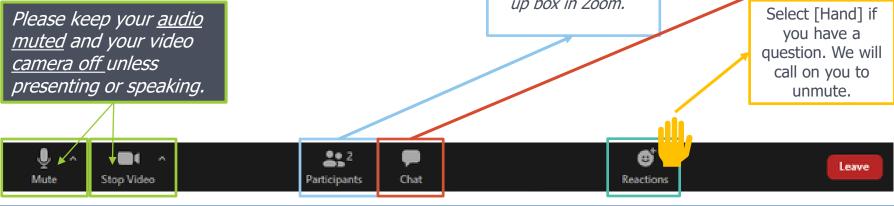
If you do not see a navigation bar at the bottom of your screen, make sure you have exited full screen mode.

### Participant List

When you click on "Participants" in the navigation bar at the bottom of your screen, a list of meeting participants will show up in a popup box in Zoom.



Input questions and view EPA resources. Upon click, pop-up box appears.



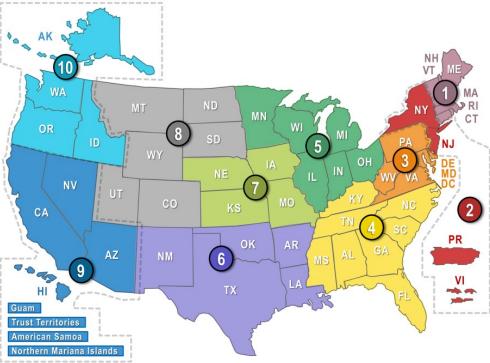


# **Program Progress & Resource Materials** Ying Tan

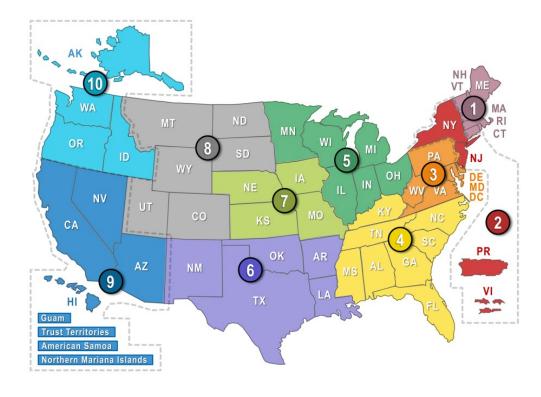
## **State Program Funds Allocated**



Fiscal Year	Amount Allocated (Million)
18-19	\$43
20	\$26
21	\$26.5
22 & 23	\$36* & \$35*



## **Program Funds Awarded**



Regions	Awarded Amount (Million)*
1	\$8.4
2	\$3.5
3	\$7.2
4	\$13
5	\$13
6	\$9.6
7	\$4.1
8	\$4.8
9	\$10.8
10	\$3.7
Total	\$78.1

## **Program Progress**

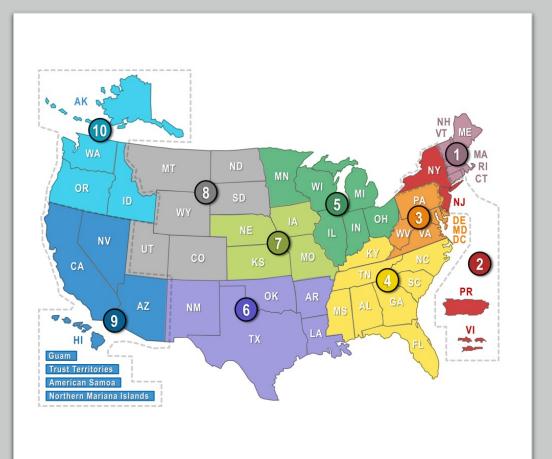


	Total Number of Facilities Tested	Total Estimated Population Benefited From Testing
FY 20	3,000	N/A
FY 21	6,000	1,000,000
FY 22	3,000	500,000

Data Source: FY 20 & 21 annual and FY 22 quarterly progress reports submitted for October 2021 - July 2022. Approximate values, subject to change with new information.

## **Program Progress**

- Program Summary Data: <u>https://www.epa.gov/ground-</u> <u>water-and-drinking-</u> <u>water/school-and-child-care-</u> <u>lead-testing-and-reduction-</u> <u>grant-program</u>
- EPA Regional and State Contacts: <u>https://www.epa.gov/dwcapacity/</u> <u>voluntary-school-and-child-care-</u> <u>lead-testing-and-reduction-state-</u> <u>grant-program-contacts</u>



## **Resource Documents**

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### (State) Voluntary School and Child Care Lead Testing & Reduction Grant Program

Coming

Soor

Implementation Document



**Revised Implementation Document for States** 



EPA hosted a workshop on May 17th, 2022 to bring the oversight agencies participating in the program together to share the programs' success stories, challenges, and Best Management Practices (BMPs), BMPs provide effective and practicable means to implement the grant program and uitimately reduce lead in dinking water at schools and child care facilities. BMPs are illustrated in the state case studies across the country that are removing and minimizing sources of each in drinking water. This document summarizes the best management practices learned from collaboration of states during that meeting.

#### **Best Management Practices**

Recipients of the Water Infrastructure Improvements for the Nation Act (WIIN) are required to use 375 guidance or an equivalent guidance that is equilally as stringent. Before texting, schools and child care facilities need a plan to train staff and to react to results appropriately. The testing plan must be tailored and placefil to the school or child care facility. This next section includes BMBs from the workshop survey, workshop presentations, and others identified during the workshop. The BMPs are organized by the 375 categories communication, training, testing, and taking action.

### **BMP Document**



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Voluntary School and Child Care Lead Testing and Reduction Grant Program



### Program Funding Usage Scenarios

The purpose of this document is to provide an overall funding breakdown of the administrative and programmatic expenditures in the implementation of the Voluntary School and Child Care Lead Testing and Reduction Grant program. It provides examples of project costs between the administration and program implementation, including communication, training, testing, and remediation. For further details or questions on program cost(s) that are not covered in this document, contact <u>WINDForkingWaterGrantGrantGraps age</u>.

Authorized Under SDWA 1464(d)

#### **Overview of Grant Program**

Section 2027 of the Water Infrastructure for Improvements to the Nation (WIII) Are authorize the U.S. Environmental Protection Agency (IEPA to waved garants to states, territories, and trable to assist local and trable deucation agencies to test for lead contamination in dinking water as schools and child care facilities. The areas groupm was estabilished as a non-competitive program, prioritzing disdavantaged and low-income communities. The Bipartian Infrastructure Law enacted in November 2022 changed the grant program to alow grant fundate to be used for compliance monitoring and/or lead remediation activities in addition to testing.

#### Grant program funding can be used for:

- Lead testing in drinking water programs in schools and child care facilities utilizing <u>EPA's 37s for</u> <u>Reducing Lead in Drinking Water</u> guidance;
- Lead remediation efforts in schools and child care facilities; and
- Outreach efforts to involve the surrounding community of testing results, remediation efforts, program implementation, and local involvement.

#### There is no cost-share requirement for this grant program.

If a grant recipient has an existing voluntary or mandatory program, this funding must be used to compliment the grant recipient's current actions to test and/or remediate lead in drinking water at schools and child care facilities. The grant funding cannot replace existing funding from other sources.

The table on the next page breaks down project costs under this grant program. Up to 4% of the total project cost may be used for administration of the program, and the remaining 96% is used for program implementation, which includes the 315 focus areas of communication, training, testine, and taking action.

### **Funding Use Scenarios**

# STS Product Highlights Cindy Mack<sup>o</sup>

 $3T_s$ 

## 3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities TRAINING – TESTING – TAKING ACTION

## 3Ts Manual (English and Spanish)



**Training** school and child care officials to raise awareness of lead in drinking water.

**Testing** drinking water in schools and child care facilities to identify potential lead problems.

*Taking action* to reduce lead in drinking water.



### **3Ts 7-Module Toolkit**



EPA 3Ts Webpage: <u>https://www.epa.gov/safewater/3Ts</u>

## **3Ts - TRAINING – TESTING – TAKING ACTION** Tools and Outreach Materials



### NFORMATION FOR SCHOOLS THAT ARE WATER SUPPLIERS ols that have their own water supply and/or treat their supply are regulated under t king Water Act (SDWA) - as non-community water systems (NCWSs) ol is a NCWS that continued drinking water opera LEAD SAMPLING CONSIDERATION r seasonal syste wn over breaks cific steps that a ng start-up steps ation Guidance nem tested f a site visit INFORMATI What can so odule 6 includes au Disease Control and I

1) Ensuring Drinking Water Quality in Child Care Facilities During and After Extended Closures

**3Ts Tools** 

- 2) Ensuring Drinking Water Quality in Schools During and After Extended Closures
- 3) Parent Communication Template Letter
- 4) Webinar: EPA & USDA Grants and Loans
- 5) Data eTrackers Tracks Inventory, testing results, and Actions
- 6) Toolkit (Manual)
- 7) Sampling Collection Field Guide
- 8) Sampling video (7 mins.)
- 9) Sampling Comic Poster for Child Care Facilities
- 10) Plan eBuilder for Child Care
- 11) Plan eBuilder for Schools

### In development

- 1) Factsheet: Common Drinking Water Plumbing Materials
- 2) Factsheet: Interpreting Sample Results
- 3) Factsheet: Federal Agency Funding

# and Actions Published in August 2022

EPA 3Ts Webpage: <a href="https://www.epa.gov/safewater/3Ts">https://www.epa.gov/safewater/3Ts</a>



## **3Ts Lead Sample Collection Video**





https://www.youtube.co m/embed/1P5HfyRctIo



Reduce Lead in Drinking Water in Schools and Child Care Facilities

EPA-816-V-22-001

## **Plan eBuilders**



U.S. EPA 3Ts Program Training, Testing & Taking Action

eBuilder - an Interactive Tool for Reducing Lead in Drinking Water in Schools





U.S. EPA 3Ts Program Training. Testing & Taking Action Plan Builder

Build an Implementation Plan for Reducing Lead in Drinking Water in Small Child Care Facilities



### First: Download the Plan Builder!

Before beginning, to ensure inputs are saved, download the Plan Builder as a PDF file and save it to your computer or shared network location. The Plan Builder is designed to be used with a desktop PDF viewer such as Adobe Acrobat or Adobe Reader.



<u>Important</u>: If you are a small child care facility, school, tribe, or another facility with 10 or fewer water outlets performing lead testing and/or remediation for drinking water, this 3Ts Plan Builder is for you. Use the <u>3Ts Program Plan Builder for Schools</u> if your facility has more than 10 water outlets.

EPA's 3Ts Program approach for reducing lead in drinking water follows three key steps:

- <u>Training</u> child care staff to raise awareness of the 3Ts Program, the potential causes and health effects of lead in drinking water, and how to sample and test for lead.
- <u>Testing</u> for lead in drinking water in child care facilities to identify potential lead problems.
- <u>Taking Action</u> to reduce lead in drinking water through short-term and/or long-term measures.

### How to Use the Plan Builder

This Plan Builder will walk you through five sections to create your 3Ts Program plan:

- 1. GETTING STARTED
- 2. <u>COMMUNICATE</u>
- 3. <u>TRAINING</u>
- 4. <u>TESTING</u>
- 5. TAKING ACTION

The Plan Builder was adapted from EPA's <u>3Ts for Reducing Lead in Drinking Water Manual, Toolkit</u>, and associated documents (e.g., <u>3Ts Checklist</u>). For full details on the 3Ts Program, including definitions of terminology (<u>3Ts Manual Appendix A</u>), refer to the 3Ts Toolkit at the following URL: <u>https://www.epa.gov/ground-water-and-drinking-water/3ts-reducing-lead-drinking-water-toolkit</u>.



### U.S. EPA 3Ts Program Training, Testing & Taking Action

Lead Sample Collection **Field Guide** For Schools and Child **Care Facilities** 

## **Sample Field Guide**



### Prepare the Sample Site

Schools or child care facilities should request, from the certified laboratory, the appropriate number of bottles and paperwork prior to sample collection.

Certified laboratories should send sampling bottles, labels, instructions, paperwork, and return shipping box. Determine how many sample containers you will use for each fixture, and make sure the laboratory has sent the appropriate number of containers. Leave the containers sealed until it is time to collect the samples. For more details - view the 2-Step Sampling at the Tap in Module 5 in the 3Ts Toolkit.

### Collect



In this section, you will learn about the appropriate sampling techniques and best practices to obtain accurate results, as well as how to properly ship your sample to the laboratory for analysis. There are three potential sampling types that this guide covers (Refer to Modules 4 and 5 in the 3Ts Toolkit for more details on sample types):

- First-draw Samples
- Flush Samples
- Sequential Samples

#### Important Notes:

 Collect all samples from cold water taps. Although EPA encourages routine maintenance of hot water heaters, this guidance does not include sampling hot

water outlets or hot water heaters, because hot water is not recommended for consumption (drinking/cooking), Refer to Module 6 under "Temperature Control" in Remediation and Establishing Routine Practices in the 3Ts Toolkit.

 After collecting the samples, you will need to ship them to the laboratory in a timely manner (typically within 2 weeks). Carefully follow any packing and shipping instructions the laboratory has sent. If no instructions were provided, please review the [Shipping Your Samples] section in this guide for additional directions.

### First-draw Samples

First-draw samples are typically collected in the morning before the facility opens and before the fixtures have been used. Collect samples from the cold water tap.

### Results

This section will cover the steps you can take after you receive the lead sample results from your selected laboratory. The steps include receiving and interpreting your results, taking action to address problem fixtures, and sharing the results with your school or child care community.

### Receiving Results

The laboratory will provide you with an estimated time frame that you will receive the results.

Use the 3Ts Sampling eTrackers to record your lead sample results for each fixture.

#### Interactive Tool: EPA 3Ts Sampling eTrackers

The 3Ts Sampling eTrackers were developed to assist schools and child care facilities to track and document sampling event information (i.e., inventory, results, actions). For WIIN grant recipients it also includes the date elements needed to report to your state. You can access the eTrackers here: 3Ts Sampling eTrackers

#### **Common Lead Concentration Units**

· Use this table to convert units of measurement. Different units of measurements are often used between programs or documents.

Unit	Conversion
Parts per billion (ppb)	1 ppb = 1 μg/L = .001 ppm = .001 mg/L
Parts per million (ppm)	1 ppm = 1 mg/L = 1000 ppb = 1000 μg/L
Microgram per liter (µg/L)	1 μg/L = 1 ppb = .001 mg/L = .001 ppm
Milligram per liter (mg/L)	1 mg/L = 1 ppm = 1000 μg/L = 1000 ppb

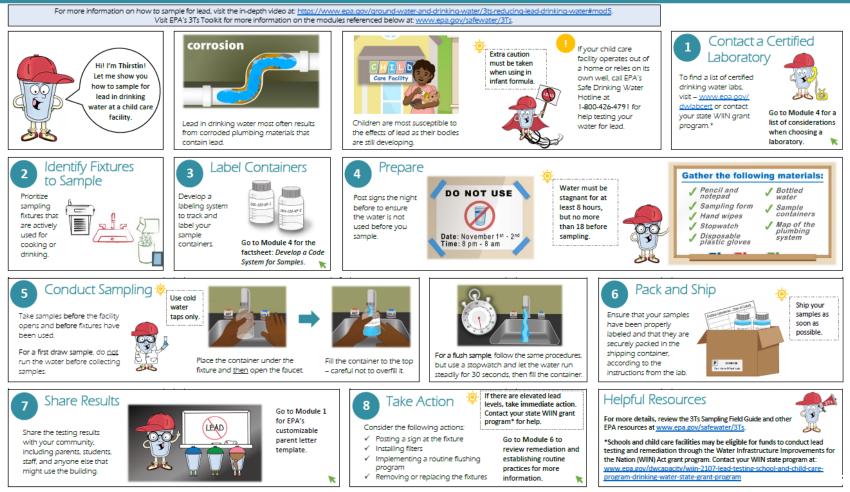
### Interpreting Results

Once you receive your lead sample results, you will need to determine which fixtures or plumbing material need immediate, short term and/or permanent actions.

Results from one outlet should not be used to generalize the lead levels at other outlets in the facility nor to determine the overall quality of your drinking water throughout the building.



### U.S. EPA 3Ts: Sample Collection Guide for Child Care Facilities



Office of Water (4606M)

EPA-816-F-22-010

# May Workshop Review & Recap Ying Tan

## **May Workshop Recap**



- Presenters: EPA, NC, MA, MI, OR, IL, PA, and MT
- Over 120 participants discussed and shared the grant program's:
  - Success stories,
  - Challenges, and
  - Best management practices
- Roundtable discussions highlighted communication and outreach, resource management, and other solution BMPs

## **May Workshop Outcomes**



- Supports the <u>EPA's FY 2022-2026 Strategic Plan</u> where implementation under the awards made under this announcement will support Goal 5: Ensure Clean and Safe Water for All Communities. Objective 5.1: Ensure Safe Drinking Water and Reliable Water Infrastructure.
- Aligns with the <u>Biden-Harris Lead Pipe and Paint Action Plan</u> and reduce children's exposure to lead in drinking water via the development of regular lead testing and remediation programs.
- Provided evidence of success in program implementation & shared insights and concepts to move forward with program plans and provide BMPs to assist with current and/or future planning

## May Workshop Outcomes (cont.)



- Common challenges highlighted include:
  - Lack of regulatory support
  - Lack of participation and limited overall engagement
  - Lack of funding for remediation
    - Recent change: BIL allows funding to cover compliance monitoring and reduction/remediation of lead
- Produced a BMPs document to carry forward and implement a successful program



## 

## **BMP Document**



Voluntary School and Child Care Lead Testing and Reduction Grant Program:

**Best Management Practices for States** 

#### Introduction

EPA hosted a workshop on May 17th, 2022 to bring the oversight agencies participating in the program together to share the programs' success stories, challenges, and Best Management Practices (BMPs). BMPs provide effective and practicable means to implement the grant program and ultimately reduce lead in drinking water at schools and child care facilities. BMPs are illustrated in the state case studies across the country that are removing and minimizing sources of lead in drinking water. This document summarizes the best management practices learned from collaboration of states during that meeting.

#### **Best Management Practices**

Recipients of the Water Infrastructure Improvements for the Nation Act (WIIN) are required to use 3Ts guidance or an equivalent guidance that is equally as stringent. Before testing, schools and child care facilities need a plan to train staff and to react to results appropriately. The testing plan must be tailored and specific to the school or child care facility. This next section includes BMPs from the workshop survey, workshop presentations, and others identified during the workshop. The BMPs are organized by the 3Ts categories: communication, training, testing, and taking action.

- Document overview/highlights
  - Consists of BMPs discussed in the workshop
  - Success stories based on the seven case studies and break out discussions
  - Ongoing challenges
- Intended to be a living document with new BMP strategies and data
  - Link to BMP document: <u>https://www.epa.gov/dwcapacity/wiin-grant-voluntary-school-and-child-care-lead-testing-and-reduction-grant-program#training</u>

## **Communication BMPs**



- Provide a tool that clearly communicates all steps of the program
- Maintaining a program-specific website to ensure program information in one place
- Programs should have an easy-to-access online enrollment form that schools and child care providers can access easily
- Engaging stakeholders and provider networks in development of plans





## **Training BMPs**



- Having standardized training materials and templates to ensure all staff are trained consistently.
- Creating and posting instructional videos online.
- Holding free virtual and/or in-person informational events to explain the program.
- Providing onsite training and support.
- **Providing resources for parents** about the lead testing program.

### LESSONS FROM NORTH CAROLINA

When North Carolina first began their statewide program in 2020, they quickly realized they had to adjust how they approached training with the COVID-19 pandemic. They added a preenrollment webinar with a virtual Q&A session to minimize enrollment, sample collection, and shipping issues.



## **Testing BMPs**



LESSONS FROM OREGON Oregon reimburses the costs of testing (including shipping and collection) as long as the tester provides the state with a complete reimbursement spreadsheet, invoices, lab reports, and a summary of the testing request.

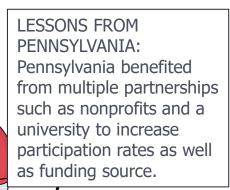


- Provide free testing and/or technical assistance may increase participant enrollment and sample collection.
- **Provide reimbursement for testing costs** makes testing accessible for many facilities.
- Provide on-site sample collection at the facility is an alternative to sending free kits.
- **Spread out testing** to not overwhelm labs and minimize backups and delays.

## **Taking Action BMPs**



- Maintaining a system to track results and remediation actions at both the state and facility level allows accurate records and actions.
- Making lead testing results easy to access and understand
- **Creating regulatory changes** at the state or local level requiring lead testing in schools to increase program involvement
- Connecting providers to funding for remediation is crucial for taking action. For example, EPA's document "Potential Funding Sources for Reducing Lead in Drinking Water in Schools and Child Care Facilities" summarizes potential funding sources to remediate lead and water quality related projects.



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# **Poll Questions**

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# Round Table Discussion and Q&A Session

## **Break Out Room Topics**



- Room 1 Communication and Outreach BMPs (Cadmus, NC, OR, PA, IL)
  - Ashley, Jennifer Redmon, Brian French, Brent Sailhamer, Caroline Pakenham
  - E.g., Getting participants, communications to public, test results and taking actions communications, etc.
- Room 2 Resource Management BMPs (EPA, NC, IL, MA)
  - Cindy Mack, Melanie Napier, Brian Cox, Michael Celona
  - E.g., Personnel/staffing, funding allocation, supply chain challenges, logistics on sampling errors, data management, etc.
- Room 3 Challenges and Solutions BMPs (EPA, NC, MT)
  - Ying Tan, Ed Norman, Gregory Montgomery
  - E.g., Hinderances, lack of partnership, lead remediation concerns, etc.

# **Q&A Session**

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Updated Implementation Document for States – FY 2022

**€EPA** 



(State) Voluntary School and Child Care Lead Testing & Reduction Grant Program

Implementation Document





## **DRAFT and Subject to Change**

"Lead Remediation is the reduction of lead sources in drinking water through the replacement or new installations of plumbing and associated services that affect human consumption. This includes but is not limited to activities related to internal plumbing, faucets, water fountains, water filler stations, Point-of-Use (POU) devices, lead service lines, and other lead-free apparatus related to drinking water."