SUPERINTENDENT'S REPORT

BUSINESS MEETING MARCH 2017

Newark Public Schools | www.nps.k12.nj.us

AGENDA

Water Update

- Introduction
- Overview of Efforts
- Plans to bring schools back online
- Additional On-going Efforts

INTRODUCTION

It has been several months since we last communicated with you about our efforts to remediate lead in the water at Newark Public Schools and great progress has been made.

Our goals today are:

1. To share updates on work that has been completed to date

2. To share our plans to bring schools back online that are currently using bottled water in the coming months.

OVERVIEW OF EFFORTS

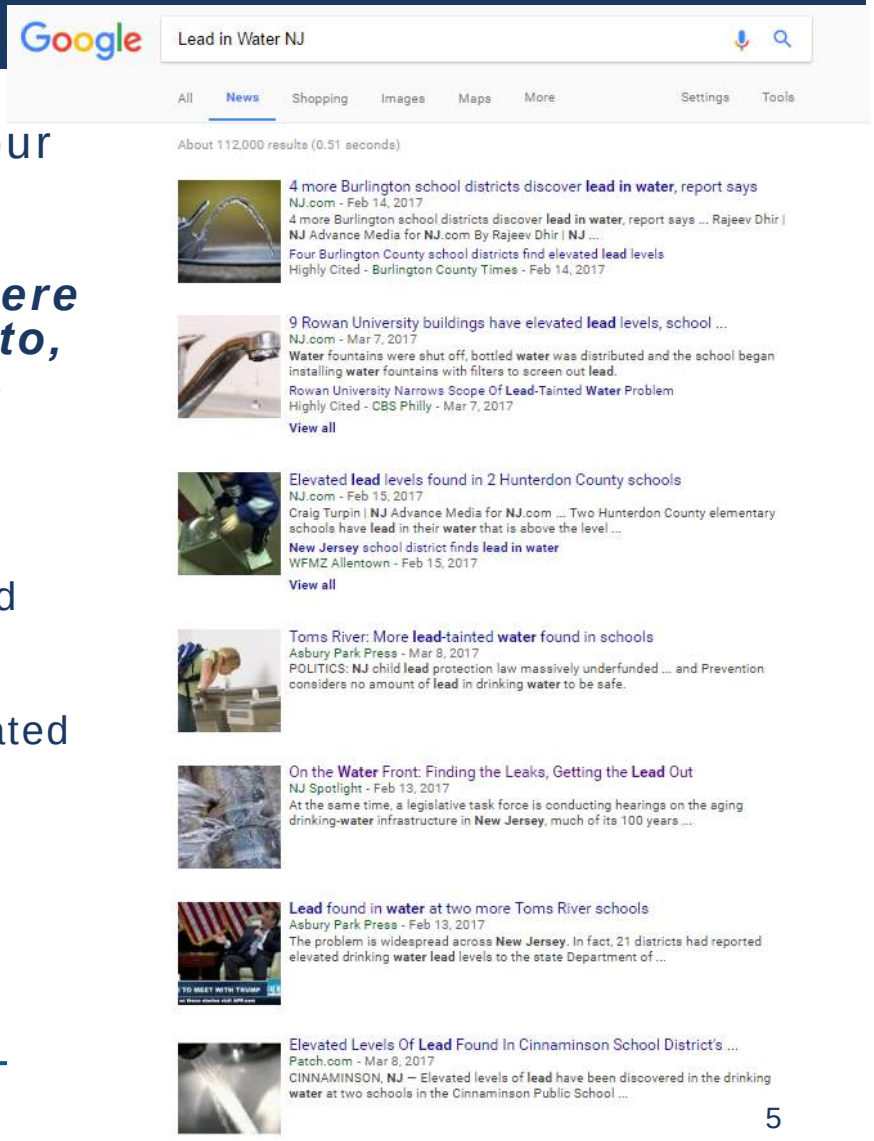
Since March, we have taken aggressive action to combat this issue. These actions include:

- **Testing over 8,500 water sources** across all Newark Public School buildings (all schools).
- **Turning off over 400 drinking water sources** where there were elevated levels of lead detected and placing signage anywhere a non-drinking water source was elevated.
- **Spending nearly $1 million** to ensure these tests were collected quickly and accurately and appropriate immediate action was taken.
- **Offering hundreds of free blood lead level tests** to those families who desired it.
  - Note: Of about 500 students tested at Newark sites, just 1 was found to be above action level of 10 micrograms per deciliter, as reported by NY Times

OVERVIEW OF EFFORTS

These actions helped us accomplish our top objective:

- ***To ensure that no NPS students were put in harm's way by, or exposed to, water with elevated levels of lead.***
- In addition, Since NPS took action:
  - Hundreds of NJ districts have conducted tests
  - Hundreds of NJ districts identified elevated levels of lead in water
  - State laws have been changed
  - Funding has been allocated

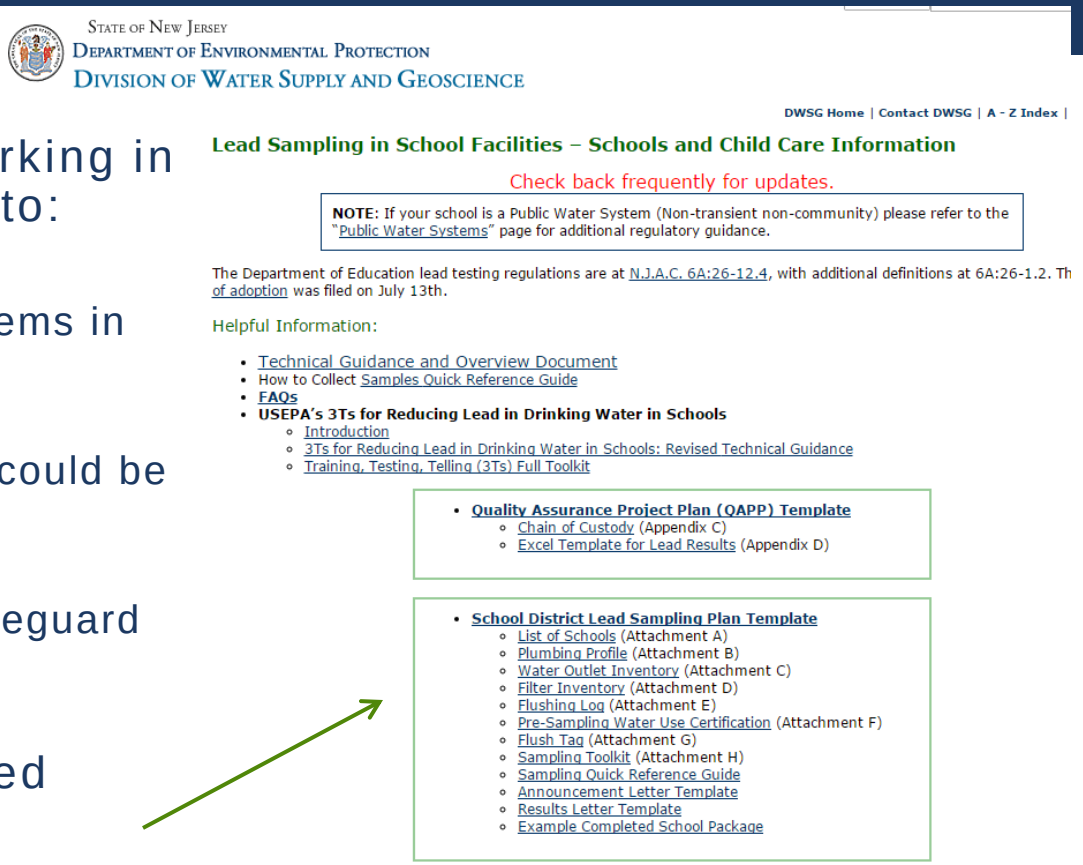


OVERVIEW OF EFFORTS

Lastly, our staff has been working in partnership with the NJ DEP to:

- Put new state-of-the-art-systems in place
- To make sure water sources could be brought safely back online
- Put processes in place to safeguard against oversight

- In fact, the NJ DEP has used artifacts developed in collaboration with NPS as guidance for the rest of the state (see screenshot).



State of New Jersey
Department of Environmental Protection
Division of Water Supply and Geoscience

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Lead Sampling in School Facilities – Schools and Child Care Information

Check back frequently for updates.

NOTE: If your school is a Public Water System (Non-transient non-community) please refer to the "Public Water Systems" page for additional regulatory guidance.

The Department of Education lead testing regulations are at N.J.A.C. 6A:26-12.4, with additional definitions at 6A:26-1.2. Th
of adoption was filed on July 13th.

Helpful Information:

- Technical Guidance and Overview Document
- How to Collect Samples Quick Reference Guide
- **FAQs**
- **USEPA's 3Ts for Reducing Lead in Drinking Water in Schools**
  - Introduction
  - 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance
  - Training, Testing, Telling (3Ts) Full Toolkit

- **Quality Assurance Project Plan (QAPP) Template**
  - Chain of Custody (Appendix C)
  - Excel Template for Lead Results (Appendix D)

- **School District Lead Sampling Plan Template**
  - List of Schools (Attachment A)
  - Plumbing Profile (Attachment B)
  - Water Outlet Inventory (Attachment C)
  - Filter Inventory (Attachment D)
  - Flushing Log (Attachment E)
  - Pre-Sampling Water Use Certification (Attachment F)
  - Flush Tag (Attachment G)
  - Sampling Toolkit (Attachment H)
  - Sampling Quick Reference Guide
  - Announcement Letter Template
  - Results Letter Template
  - Example Completed School Package

BRINGING SCHOOLS BACK ONLINE

- **We are happy to report that we will begin a process to bring all school back online using city water.**

- Schools will be brought back online in phases over the coming months, starting with a first phase of nine schools over spring break.

  - Roberto Clemente
  - New Jersey Regional Day
  - Abington Ave
  - 14th Ave
  - So.17th St
  - Newton Street
  - Wilson Ave
  - Hawthorne
  - Ridge St. Annex

BRINGING SCHOOLS BACK ONLINE

- Once the first phase of schools is brought back online, we will be bringing the other schools currently on bottled water back in phases.

1. Phase 1: Will Occur over Spring Break (4/15)
2. Phase 2: Will occur late spring (5/01 – 6/01)
3. Phase 3: Will occur in Summer Months (6/15 – 9/01)

BRINGING SCHOOLS BACK ONLINE

When we bring each of these schools back online, we are able to do so only after taking a number of key actions:

1. **We conduct a comprehensive review of all available data**.

2. **We remediate all water fountains with elevated levels of lead** by replacing pipes, fixtures, or other necessary actions to get to the root cause of the issue.

3. **We re-sample the water fountain to ensure that the remediation worked.** (Each water fountain is only cleared to move forward if these re-tests come in below the action level. If above, plumbers continue remediation)

4. **We place state-of-the-art 3 cartridge filters on the water fountain. These filters shut off the water if they reach their capacity and will be managed and monitored by outside experts to guard against oversight.**

5. **We place clear signage stating "DO NOT DRINK. USE FOR HANDWASHING ONLY." At all sinks and water sources that are not filtered or intended for consumption.**

BRINGING SCHOOLS BACK ONLINE

1. We conduct a comprehensive review of all available data.

In order to conduct a comprehensive review, first our facilities staff:

- ✓ Re-walk and Check data for each school
- ✓ Create barcodes (or point of use IDs) for every fixture
- ✓ Connected all water result data back to floor plans and create plumbing profiles for each school
- ✓ DEP and NPS review each package
- ✓ new data management system to track improvements going forward

Building:	**Newton**			
Testing Date:	**4/2/16**			
Summary:				
Number of samples taken:			82	
Number / percent of samples >= 15.5ppb:			9	11.0%
Number of drinking water samples taken:			40	
Number / percent of drinking water samples >= 15.5ppb:			2	5.0%

Location	Description	Drinking Water	Result (ppb)	>= 15.5 ppb
NS KC BFL S1 UN03	Basement floor: Kitchen faucet, cold - Location UN03 Fixture 1	yes	9.14	
NS KC BFL S1 UN03 FLUSH	Basement floor: Kitchen faucet, cold - Location UN03 FLUSH Fixture 1	yes	1.27	
NS HS BFL S2 UN03	Basement floor: Hand sink - Location UN03 Fixture 2		2.09	
NS HS BFL S2 UN03 FLUSH	Basement floor: Hand sink - Location UN03 FLUSH Fixture 2		0.996	
NS FP BFL S1 UN03	Basement floor: Food preparation sink - Location UN03 Fixture 1	yes	0.584	
NS FP BFL S1 UN03 FLUSH	Basement floor: Food preparation sink - Location UN03 FLUSH Fixture 1	yes	3.05	
NS HS BFL S3 UN03	Basement floor: Hand sink - Location UN03 Fixture 3		10.4	
NS HS BFL S3 UN03 FLUSH	Basement floor: Hand sink - Location UN03 FLUSH Fixture 3		1.13	
NS DW BFL E1 UN08-H	Basement floor: Drinking water bubbler - Location UN08-H Fixture 1	yes	5.62	
NS-DW-BFL-E1-UN08-H FLUSH	Basement floor: Drinking water bubbler - Location UN08 H FLUSH Fixture 1	yes	3.24	
NS-DW-BFL-E2-UN08-H	Basement floor: Drinking water bubbler - Location UN08 H Fixture 2	yes	264	yes
NS-DW-BFL-E2-UN08-H FLUSH	Basement floor: Drinking water bubbler - Location UN08 H FLUSH Fixture 2	yes	5.42	
NS HS BFL S1 UN06	Basement floor: Hand sink - Location UN06 Fixture 1		286	yes
NS HS BFL N1 UN16	Basement floor: Hand sink - Location UN16 Fixture 1		2.37	
NS HS BFL N1 UN16 FLUSH	Basement floor: Hand sink - Location UN16 FLUSH Fixture 1		ND	
NS DW BFL S1 UN14	Basement floor: Drinking water bubbler - Location UN14 Fixture 1	yes	4.24	
NS DW BFL S1 UN14 FLUSH	Basement floor: Drinking water bubbler - Location UN14 FLUSH Fixture 1	yes	0.859	
NS DW BFL S2 UN14	Basement floor: Drinking water bubbler - Location UN14 Fixture 2	yes	2.28	
NS DW BFL S2 UN14 FLUSH	Basement floor: Drinking water bubbler - Location UN14 FLUSH Fixture 2	yes	ND	
NS DW BFL N1 UN15-H	Basement floor: Drinking water bubbler - Location UN15-H Fixture 1	yes	8.54	
NS DW BFL N1 UN15-H FLUSH	Basement floor: Drinking water bubbler - Location UN15-H FLUSH Fixture 1	yes	2.88	
NS DW BFL N2 UN15-H	Basement floor: Drinking water bubbler - Location UN15-H Fixture 2	yes	12.1	
NS DW BFL N2 UN15-H FLUSH	Basement floor: Drinking water bubbler - Location UN15-H FLUSH Fixture 2	yes	2.82	
NS HS BFL N1 UN21	Basement floor: Hand sink - Location UN21 Fixture 1		3.17	
NS HS BFL N2 UN21	Basement floor: Hand sink - Location UN21 Fixture 2		12.8	
NS WC 3FL W1 315H	3rd floor: Water cooler - chill unit - Location 315H Fixture 1	yes	ND	
NS WC 3FL W1 315H FLUSH	3rd floor: Water cooler - chill unit - Location 315H FLUSH Fixture 1	yes	ND	

BRINGING SCHOOLS BACK ONLINE

2. We remediate all water fountains with elevated levels of lead.

Plumbers remove old galvanized water lines and installing new “Lead Free”:

- ➢ Service lines
- ➢ Fixtures
- ➢ Valves
- ➢ Bubbler heads

BRINGING SCHOOLS BACK ONLINE

3. We re-sample the water fountain to ensure that the remediation worked.

(Each water fountain is only cleared to move forward if these re-tests come in below the action level. If above, plumbers continue remediation)

BRINGING SCHOOLS BACK ONLINE

4. We place state-of-the-art 3 cartridge filters on the water fountain.

These filters shut off the water if they reach their capacity and will be managed and monitored by outside experts to guard against oversight.

BRINGING SCHOOLS BACK ONLINE

5. We place clear signage stating "DO NOT DRINK. USE FOR HANDWASHING ONLY." At all sinks and water sources that are not filtered or intended for consumption.

- NPS/Office of Communications has printed signs "In-House"
- Barringer HS Print Shop Laminated 500 signs
- Glazing Shop In Process of Cutting Lexan Covers
- Establishing schedule for installations
- Installation of signage has been completed on 9 Schools returning to City Water.

ADDITIONAL ON-GOING EFFORTS KITCHENS

Beginning October 13 ,2016 Reverse Osmosis (RO) filtration systems were piloted in Seven NPS Kitchens. Currently the RO's are fully operational in all Seven Kitchens where there were elevated levels of lead detected:

- Camden St.
- Avon Ave
- Luis Munoz Marin/ Broadway
- East Side HS
- L.A. Spencer
- Harriet Tubman
- Hawthorne Ave

All remaining NPS Kitchens where results were not elevated are currently on a Flush Protocol beginning 9/6/2016.

Kitchen Fixtures on Food Prep sinks were also replaced with Lead Free faucets

ADDITIONAL ON-GOING EFFORTS BUILDINGS WITH WATER

Schools Currently on City Water

- **All safeguards remain in place**
  - Any drinking fountain that tested above the action level was shut off
  - Signage was placed at all non-drinking water sources

- **An additional 15 schools have had filters upgraded** and upgrades at remaining schools will be completed in parallel with those being brought back online
  - Any drinking fountain that tested above the action level remains shut off and will be remediated after those with water currently offline are prioritized

ADDITIONAL ON-GOING EFFORTS AERATOR PROTOCOLS

- **Aerator maintenance will be performed monthly by the night shift**
  - Complete one floor each month
- **Procedures for proper aerator maintenance**
  - Start from the faucet on top floor of building furthest from POE.
  - Remove Aerator from each faucet
  - Remove any debris from screen
  - Clean the screen of any film or buildup.
  - Replace screens as needed.

ADDITIONAL ON-GOING EFFORTS TRAINING

Phase #1: Custodial Staff (120) and Supervisors received training on how to properly maintain Drinking Fixtures.

- Aerator Maintenance Training was held on 12/27/2016. Included All Head Custodians and Per Diem Custodians.
- Demonstrations on how to properly remove and clean aerators
- Hands on training to practice new process (Water Maintenance Log Policy)
- Custodians and supervisors received an overview of Water Maintenance documentation policy requiring ongoing logging of water maintenance activity and capturing entries in Google Docs

Phase #2: Custodial Staff (16) and Supervisors of the First Cohort of school returning to "City Water" have received training on how to use Google Docs Maintenance Log (2/28/2017)

- Log all findings and work performed.
- Keeping track of entries when maintenance is not completed same day
- Document action taken
- List any concerns or observations
- Document times and dates aerator cleaning protocol/maintenance has been completed

Phase #3: The remaining Custodial Staff (104) and Supervisors will receive training on how to use Google Docs Maintenance Log to be completed in 4 cohorts by 3/15/2017 (TBD).

- Log all findings and work performed.
- Keeping track of entries when maintenance is not completed same day
- Document action taken
- List any concerns or observations
- Document times and dates aerator cleaning protocol/maintenance has been completed

COMMUNITY ENGAGEMENT PLAN

- 3/27: Conference call with principals to share water update
- 3/28: Water Update shared at Board Meeting
- 3/28-31: Phase 1 Schools share water update at budget meetings
- 3/31: Water update (Presentation + Text) posted to website
- 4/03–07: NPS holds two water update meetings
- 4/07: Schools share backpack letter with families