

## Overview of Testing Results for Lead in Drinking Water and Corrective Actions for Naval Weapons Station Yorktown Building 2094

The safety and wellness of child development centers, schools, and youth centers is a top priority. To reduce children's potential exposure to lead from facility drinking water, Navy policy requires that we test the lead content of drinking water in these priority areas every five years.

Lead is a toxic metal and exposure can have a wide range of adverse health effects for children in critical developmental stages. Exposure to lead for children may lead to lowered birth weight, slowed physical and mental development, lowered IQ levels, impaired hearing, reduced attention span, and poor classroom performance. Lead in drinking water may come from the existing plumbing inside buildings, including fittings, solder, water coolers, or water faucets. Lead is more likely to be found in drinking water when the water has not been run for an extended period of time and has been sitting in the plumbing system.

Between October 2024 and January 2025, Navy environmental personnel conducted lead testing for drinking water at the Child Development Center Building 2094 in accordance with Navy and United States Environmental Protection Agency (EPA) guidelines. Water samples were sent to James R. Reed & Associates, a state-certified laboratory, for analysis.

At Building 2094, water from outlets used for drinking, cooking, and washing was tested. Out of 49 samples, none of the outlets tested higher than the 10 parts per billion (ppb) screening level for lead, which is a level designated by EPA as a threshold for additional action and corrective measures, if necessary.

A summary of all test results is included for your information in the following enclosures:

- **Enclosure 1:** Summary of results
  - **Table 1 Summary of Results** summarizes the data by category of use. The table provides a description of each sampling location using four columns; *Category*, *Outlet No.*, *Sample Identification*, and *Outlet Description*. The *Category* column contains information about whether the outlet is used for drinking water (water fountain), cooking (food preparation), or washing (primarily handwashing). The *Outlet No.* is the inventory number for the outlets at the facility. The *Sample Identification* column is the unique identification used to label each sample bottle. The *Outlet Description* column contains additional information to describe the outlet sampled under each category. The next set of columns in **Table 1** provides *Initial Sampling Results*. EPA sampling protocol requires water to not be used from 8 to 18 hours prior to first draw sampling, to the extent practicable. Therefore, the *Initial Sampling Results* were from first draw samples collected in the early morning.
  - **Table 2 Summary of Statistics** summarizes all data collected at the building during this event.
- **Enclosure 2:** Floor plan of Building 2094 and a summary of the outlets tested.

Table 1. Summary of Results

SAMPLING LOCATION DESCRIPTION				INITIAL SAMPLING RESULTS			RE-SAMPLING RESULTS			CORRECTIVE ACTIONS	POST REMEDIATION SAMPLING RESULTS		Comments	
CATEGORY Water Intended For:	SAMPLE IDENTIFICATION	OUTLET NO.	OUTLET DESCRIPTION	First Draw (ppb)	Retest required?	Date Fixture Secured?	Recommended Level = 10 parts per billion (ppb)				Description	Recommended Level = 10 ppb		
							Water Fountain 15 min. Follow up Flush Sample - Collected day before First Draw Sampling (ppb)	First Draw (ppb)	Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)	First Draw (ppb)		Follow up Flush - Collected 30 seconds after First Draw Sampling (ppb)		
SAMPLING DATE				10/18/2024				N/A			N/A			
RESULTS DATE				10/28/2024				N/A			N/A			
DRINKING	YT-2094-OUTSIDE-WFBA-FD	6	Outside water fountain (bubbler) A	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DRINKING	YT-2094-RM108-WFCOMB-FD	14	Toddler 108 water fountain from combination sink	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DRINKING	YT-2094-OUTSIDE-WFBB-FD	19	Outside water fountain (bubbler) B	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DRINKING	YT-2094-RM110-WFCOMB-FD	23	Toddler 110 water fountain from combination sink	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DRINKING	YT-2094-RM109-WFCOMB-FD	42	Preschool 109 water fountain from combination sink	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DRINKING	YT-2094-RM107-WFCOMB-FD	50	Preschool 107 water fountain from combination sink	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DRINKING	YT-2094-OUTSIDE-WFBC-FD	54	Outside water fountain (bubbler) C	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DRINKING	YT-2094-LOUNGE-WDFRIG-FD	70	Staff Lounge water dispenser in refrigerator	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COOKING	YT-2094-LOUNGE-K-FD	1	Staff Lounge kitchen sink for dishwashing and food preparation	1	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COOKING	YT-2094-K111-KA-FD	30	Kitchen 111 sink A for dishwashing and food preparation	1	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COOKING	YT-2094-K111-KB-FD	31	Kitchen 111 sink B for dishwashing and food preparation	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COOKING	YT-2094-K111-KC-FD	33	Kitchen 111 sink C for dishwashing and food preparation	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COOKING	YT-2094-K111-KD-FD	35	Kitchen 111 sink D for dishwashing and food preparation	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BRUSHING/WASHING	YT-2094-RM121-TB-FD	3	Pretoddler 121 high hand washing and toothbrushing faucet	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM121-HHW-FD	4	Pretoddler 121 Restroom high hand washing faucet with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM121-LHW-FD	5	Pretoddler 121 Restroom low hand washing faucet	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BRUSHING/WASHING	YT-2094-RM120-TB-FD	7	Pretoddler 120 high hand washingand toothbrushing faucet	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM120-HHW-FD	8	Pretoddler 120 Restroom high hand washing faucet	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM120-LHW-FD	9	Pretoddler 120 Restroom low hand washing faucet	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-BATHA-HHW-FD	10	Restroom A high hand washing faucet	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-BATHB-HHW-FD	11	Restroom B high hand washing faucet with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM108-HHWA-FD	12	Toddler 108 high hand washing faucet A	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM108-LWCOMB-FD	13	Toddler 108 low hand washing faucet from combination sink	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM108-HHWB-FD	15	Toddler 108 Restroom high hand washing faucet B	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM108-LHWA-FD	17	Toddler 108 Restroom low hand washing faucet A with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM108-LHWB-FD	18	Toddler 108 Restroom low hand washing faucet B with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM110-HHWA-FD	20	Toddler 110 high hand washing faucet A	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM110-LWCOMB-FD	22	Toddler 110 low hand washing faucet from combination sink	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM110-HHWB-FD	24	Toddler 110 Restroom high hand washing faucet B	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM110-LHWA-FD	25	Toddler 110 Restroom low hand washing faucet A with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM110-LHWB-FD	26	Toddler 110 Restroom low hand washing faucet B with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-K111-HHW-FD	34	Kitchen 111 high hand washing faucet	5	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10/18/2025: Outlet not sampled; not functioning 01/24/2025: Outlet sampled 01/30/2025: Results received
WASHING	YT-2094-BATHC-HHW-FD	36	Restroom C high hand washing faucet with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM109-HHWA-FD	39	Preschool 109 high hand washing faucet A	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM109-LWCOMB-FD	41	Preschool 109 low hand washing outlet from combination sink	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM109-HHWB-FD	43	Preschool 109 Restroom high hand washing faucet B	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM109-LHWA-FD	45	Preschool 109 Restroom low hand washing faucet A with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM109-LHWB-FD	46	Preschool 109 Restroom low hand washing faucet B with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM107-HHWA-FD	47	Preschool 107 high hand washing faucet A	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM107-LWCOMB-FD	49	Preschool 107 low hand washing faucet from combination sink	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM107-HHWB-FD	51	Preschool 107 Restroom high hand washing faucet B	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM107-LHWA-FD	52	Preschool 107 Restroom low hand washing faucet A with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM107-LHWB-FD	53	Preschool 107 Restroom low hand washing faucet B	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM105-HHWA-FD	57	Infant 105 high hand washing faucet A	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM105-HHWB-FD	59	Infant 105 Restroom high hand washing faucet B	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM105-LHW-FD	60	Infant 105 Restroom low hand washing faucet with motion sensor	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM103-LHW-FD	61	Infant 103 Restroom low hand washing faucet with motion sensor	2	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM103-HHWA-FD	62	Infant 103 high hand washing faucet A	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WASHING	YT-2094-RM103-HHWB-FD	64	Infant 103 Restroom high hand washing faucet B	non-detect	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 2. Summary Statistics

CATEGORY	INITIAL SAMPLING RESULTS		RE-SAMPLING RESULTS		POST REMEDIATION RESULTS
	Recommended Level = 10 parts per billion (ppb)				
	First Draw	Water Fountain Follow up Flush Sample - Collected day before First Draw Sampling	First Draw (ppb)	Follow up Flush - Collected 30 seconds after First Draw Sampling	First Draw
Total Drinking	8	0	0	0	0
Total Drinking > 10 ppb	0	0	0	0	0
Total Cooking	5	0	0	0	0
Total Cooking > 10 ppb	0	0	0	0	0
Total Washing/Brushing	36	0	0	0	0
Total Washing/Brushing > 10 ppb	0	0	0	0	0
Total Samples	49	0	0	0	0
Total Samples > 10 ppb	0	0	0	0	0

## Enclosure 2: Building 2094 - Site Plan Summary



**Figure 1.**  
**Building 2094 – Floor Plan**  
 NWS Yorktown  
 Yorktown, Virginia

Outlet No.	Type of Fixture		Exceeded?
1	Kitchen sink for dishwashing and food preparation	Staff Lounge	No
2	Ice maker in refrigerator	Staff Lounge	Not sampled; not used for drinking
3	High hand washing and toothbrushing faucet	Pretoddler 121	No
4	High hand washing faucet with motion sensor	Pretoddler 121 Restroom	No
5	Low hand washing faucet	Pretoddler 121 Restroom	No
6	Water fountain (bubbler)	Outside of Pretoddler 120 and 121	No
7	High hand washing and toothbrushing faucet	Pretoddler 120	No
8	High hand washing faucet	Pretoddler 120 Restroom	No
9	Low hand washing faucet with motion sensor	Pretoddler 120 Restroom	No
10	High hand washing faucet	Restroom A	No
11	High hand washing faucet with motion sensor	Restroom B	No
12	High hand washing faucet	Toddler 108	No
13	Low hand washing faucet from combination sink	Toddler 108	No
14	Water fountain outlet from combination sink	Toddler 108	No
15	High hand washing faucet	Toddler 108 Restroom	No
16	Sprayer attached to high hand washing faucet	Toddler 108 Restroom	Not sampled; not used for drinking
17	Low hand washing faucet with motion sensor	Toddler 108 Restroom	No
18	Low hand washing faucet with motion sensor	Toddler 108 Restroom	No
19	Water fountain (bubbler)	Outside of Toddler 108 and 110	No
20	High hand washing faucet	Toddler 110	No
21	Sprayer attached to high hand washing faucet	Toddler 110	Not sampled: not used for drinking
22	Low hand washing faucet from combination sink	Toddler 110	No
23	Water fountain from combination sink	Toddler 110	No
24	High hand washing faucet	Toddler 110 Restroom	No
25	Low hand washing faucet with motion sensor	Toddler 110 Restroom	No
26	Low hand washing faucet with motion sensor	Toddler 110 Restroom	No
27	Sprayer attached to high hand washing faucet	Toddler 108	Not sampled; not used for drinking
28	Sprayer attached to high hand washing faucet	Pretoddler 121	Not sampled: not used for drinking
29	Sprayer attached to high hand washing faucet	Pretoddler 120	Not sampled; not used for drinking
30	Kitchen sink for dishwashing and food preparation	Kitchen 111	No
31	Kitchen sink for dishwashing and food preparation	Kitchen 111	No
32	Dishwashing sprayer	Kitchen 111	Not sampled; not used for drinking
33	Kitchen sink for dishwashing and food preparation	Kitchen 111	No
34	High hand washing faucet	Kitchen 111	No
35	Kitchen sink for dishwashing and food preparation	Kitchen 111	No
36	High hand washing faucet with motion sensor	Restroom C	No
37	Shower head	Restroom C	Not sampled; not used for drinking
38	Utility sink	Laundry	Not sampled: not used for drinking
39	High hand washing faucet	Preschool 109	No
40	Sprayer attached to high hand washing faucet	Preschool 109	Not sampled; not used for drinking
41	Low hand washing faucet from combination sink	Preschool 109	No
42	Water fountain from combination sink	Preschool 109	No
43	High hand washing faucet	Preschool 109 Restroom	No

Outlet No.	Type of Fixture		Exceeded?
44	Sprayer attached to high hand washing faucet	Preschool 109 Restroom	Not sampled; not used for drinking
45	Low hand washing faucet with motion sensor	Preschool 109 Restroom	No
46	Low hand washing faucet with motion sensor	Preschool 109 Restroom	No
47	High hand washing faucet	Preschool 107	No
48	Sprayer attached to high hand washing faucet	Preschool 107	Not sampled; not used for drinking
49	Low hand washing faucet from combination sink	Preschool 107	No
50	Water fountain from combination sink	Preschool 107	No
51	High hand washing faucet	Preschool 107 Restroom	No
52	Low hand washing faucet with motion sensor	Preschool 107 Restroom	No
53	Low hand washing faucet	Preschool 107 Restroom	No
54	Water fountain (bubbler)	Outside of Preschool 107 and 109	No
55	Hose bib	Outside of Infant 103	Not sampled; not used for drinking
56	Utility sink	Janitor	Not sampled; not used for drinking
57	High hand washing faucet	Infant 105	No
58	Sprayer attached to high hand washing faucet	Infant 105	Not sampled; not used for drinking
59	High hand washing faucet	Infant 105 Restroom	No
60	Low hand washing faucet with motion sensor	Infant 105 Restroom	No
61	Low hand washing faucet with motion sensor	Infant 103 Restroom	No
62	High hand washing faucet	Infant 103	No
63	Sprayer attached to high hand washing faucet	Infant 103	Not sampled; not used for drinking
64	High hand washing faucet	Infant 103 Restroom	No
65	Sprayer attached to high hand washing faucet	Infant 103 Restroom	Not sampled; not used for drinking
66	Hose bib	Outside of Restroom C	Not sampled; not used for drinking
67	Hose bib	Outside of Building 2094	Not sampled; not used for drinking
68	Hose bib	Outside of Building 2094	Not sampled; not used for drinking
69	Sprayer attached to high hand washing faucet	Pretoddler Room 121 Restroom	Outlet removed
70	Water dispenser in refrigerator	Staff Lounge	No