Montgomery County Public Schools
Lead in Drinking Water Testing Report

Montgomery Village MS
19300 Watkins Mill Road
Montgomery Village, MD 20886

Report Date: March 24th, 2020

LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	2/28/2020
# of Outlets Tested	61
# of Outlets ≥ 5 ppb	0

NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be immediately shut-down, a follow-up sample collected, and a remedial plan of action developed for this outlet. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

SOURCES OF HUMAN EXPOSURE TO LEAD

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, cosmetics, exposure in the work place and from certain hobbies. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:

1. Run your water to flush out lead**:** If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

**Please note that boiling the water will not reduce lead levels.*

ADDITIONAL INFORMATION

1. For additional information, please contact Brian Mullikin, Environmental Team Leader, at 240.740.2324 or brian_a_mullikin@mcpsmd.org.
2. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at www.epa.gov/lead.
3. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.

Please refer to the attachment(s) for additional water sampling information.

Attachment(s) A – Lead in Water Sample Results Table

ATTACHMENT A

Lead in Water Sample Results Table

Sampling Results for Montgomery Village MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW00456	In special ed 110	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00457	In hallway adjacent to room 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00458	In hallway adjacent to main office 100	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00459	In work room 100E by administration	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00460	In health room 102	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW00461	In hallway adjacent to 102 health room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00462	In hallway adjacent to 152 cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00463	In cafeteria 152 by cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00464	In kitchen by cafeteria	Kitchen Sink	1.3	Pass	N/A	Testing Complete
LW00465	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00466	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00467	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00468	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00469	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00470	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00471	In kitchen by cafeteria	Kitchen Sink	1.1	Pass	N/A	Testing Complete
LW00472	In kitchen by cafeteria	Ice Machine	<1	Pass	N/A	Testing Complete
LW00473	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00474	In Classroom 158b	Classroom Sink	3.8	Pass	N/A	Testing Complete
LW00475	In Classroom 158	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00477	In hallway adjacent to life management 158	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00478	In hallway adjacent to 178 conference room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00479	In hallway adjacent to Classroom 170	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00480	In hallway right of room 192	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW00481	In conference room 178	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00482	In hallway right of room 134	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00483	In hallway right of room 164	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01262	In hallway next to 048	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01263	In hallway next to 040	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01266	In classroom 24	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01267	In hallway adjacent to Classroom 20	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01268	In hallway adjacent to Classroom 20	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01269	In locker room - boys 19	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01270	In locker room - girls 11	Drinking Fountain	<1	Pass	N/A	Testing Complete
M04515	In work room 137 by media center	Classroom Sink	<1	Pass	N/A	Testing Complete
M04517	In break room 140	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M04519	In special ed 112	Classroom Sink	<1	Pass	N/A	Testing Complete
M04520	In special ed 112	Classroom Sink	<1	Pass	N/A	Testing Complete
M12555	In conference room 31	Classroom Sink	<1	Pass	N/A	Testing Complete
M12557	In conference room 29	Classroom Sink	1.0	Pass	N/A	Testing Complete
M12559	In classroom 24	Classroom Sink	2.6	Pass	N/A	Testing Complete
M15462	In special ed 120	Classroom Sink	<1	Pass	N/A	Testing Complete
M15463	In special ed 120	Classroom Sink	<1	Pass	N/A	Testing Complete
M15466	In classroom 153B	Classroom Sink	1.2	Pass	N/A	Testing Complete
M15467	In Classroom 153F	Classroom Sink	<1	Pass	N/A	Testing Complete
M15482	In Classroom 158	Classroom Sink	3.8	Pass	N/A	Testing Complete
M15483	In Classroom room 158	Classroom Sink	<1	Pass	N/A	Testing Complete
M15487	In classroom 160	Classroom Sink	<1	Pass	N/A	Testing Complete
M15488	In classroom 160 by classroom	Classroom Sink	<1	Pass	N/A	Testing Complete
M15494	In conference 167	Classroom Sink	<1	Pass	N/A	Testing Complete
M15495	In conference 173	Classroom Sink	2.5	Pass	N/A	Testing Complete

M15501	In classroom 181	Classroom Sink	<1	Pass	N/A	Testing Complete
M15502	In classroom 181	Classroom Sink	<1	Pass	N/A	Testing Complete
M15507	In office 179	Classroom Sink	1.0	Pass	N/A	Testing Complete
M15508	In classroom 180	Classroom Sink	<1	Pass	N/A	Testing Complete
M15509	In classroom 180	Classroom Sink	<1	Pass	N/A	Testing Complete
M45499	In conference 15	Classroom Sink	<1	Pass	N/A	Testing Complete
M45507	In Seminar room 174	Classroom Sink	<1	Pass	N/A	Testing Complete
M45508	In Seminar room 174	Classroom Sink	<1	Pass	N/A	Testing Complete
M45518	In storage 128B by music ie. inside of room 130	Classroom Sink	<1	Pass	N/A	Testing Complete
Lw07760	In hallway adjacent to 134 gym	Drinking Fountain	<1	Pass	N/A	Testing Complete

KCI TECHNOLOGIES
ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD • SPARKS, MD 21152 • 410-316-7800 • (FAX) 410-316-7935

Montgomery County Public Schools Lead in Drinking Water
Post-Remediation Follow-Up Testing 2019

August 30, 2019

Executive Summary:
Montgomery Village Middle School
19300 Watkins Mill Road
Montgomery Village, Maryland 20886

Round of Testing:	Post-Remediation Follow-up
Sample Date	1/31/19
# of Outlets Tested:	1
# of Outlets ≥5 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	<1.0

Project Status

Testing Complete: Post-remediation follow-up testing completed for following rooms:

Classroom 153B - Outlet (M15466) will be placed back into service

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August 30, 2019

Mr. Brian Mullikin, MS
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Dr., Bldg A, 1st Floor
Gaithersburg, Maryland 20879

Re: Lead in Water Post-Remediation Follow-up Testing Service

Location: Montgomery Village Middle School
19300 Watkins Mill Road
Montgomery Village, Maryland 20886

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of the post-remediation follow-up lead in water testing at Montgomery Village Middle School, located at 19300 Watkins Mill Road in Montgomery Village, Maryland 20886.

SCOPE OF SERVICES

One drinking water outlet was remediated at Montgomery Village Middle School due to initial lead levels that exceeded the lead action level of 5 parts per billion (ppb). KCI Technologies, Inc. conducted lead in water post-remediation follow-up testing in accordance with the Maryland Code of Regulations (COMAR) 26.16.07 - Lead in Drinking Water - Public and Nonpublic Schools.

KCI Technologies, Inc. visited the site on 1/31/19 to collect a post-remediation follow-up sample from 1 drinking water outlet that had been replaced. The sample was submitted to a laboratory for lead in water analysis using current US EPA methodology. The laboratory has been certified by the Maryland Department of the Environment to analyze drinking water for lead.

RESULTS

The initial, flush, and post-remediation follow-up results are highlighted in the summary table below:

Barcode ID	Room Number	Location	Notes	Equipment Type	Initial (ppb)	Flush (ppb)	Post-Remediation Follow-up (ppb)	Post-Remediation Follow-up Pass/Fail	Status
M15466	153B	Classroom		Faucet	45.6	<1.0	<1.0	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service

DISCUSSION

Lead is a naturally occurring element that can be harmful to humans when ingested or inhaled, particularly to children under the age of six. Lead can adversely affect the development of children's brain potentially leading to detrimental alterations in intelligence and behavior. Lead has been historically used in plumbing, paint and other building materials. Lead is released into the environment from industrial sources and fuel combustion. Lead may also be found in consumer products (imported candy, medicines, toys, dishes, etc.).

Most lead leaches into drinking water from contact with plumbing components such as faucets and valves made of brass or lead-containing solder. The physical and chemical interaction that occurs between the plumbing and water directly contributes to the amount of lead that is released into the water. Although plumbing components installed prior to the 1990's could contain more lead than newer materials, the amount of lead in the drinking water cannot be predicted by the age of building. The purpose of this regulation is to establish a program to minimize the risk of exposure to lead in drinking water outlets at schools. The Environmental Protection Agency (EPA) developed the 3T's (Training, Testing, and Telling) to assist schools in reducing the lead concentrations in their drinking water. More information about 3T's can be found on the EPA website.

Simple steps like keeping your home clean and well-maintained will go a long way in preventing lead exposure. These steps include inspecting and maintaining all painted surfaces to prevent paint deterioration, using only cold water to prepare food and drinks, flushing water outlets used for drinking or food preparation, and cleaning around painted areas where friction can generate dust, such as doors, windows, and drawers. Wipe these areas with a wet sponge or rag to remove paint chips or dust, and wash children's hands, bottles, pacifiers and toys often.

Respectfully Submitted,
KCI Technologies, Inc.

Kamau McAbee
MDE Certified Water Sampler #8281KM
KCI Job #1214634186

MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

April 24, 2018

Executive Summary:
Montgomery Village Middle School
19300 Watkins Mill Road
Montgomery Village, MD 20886

Round of Testing:	Initial
# of Outlets Tested:	60
# of Outlets ≥ 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	45.6
Follow-Up Testing Required (Samples ≥ 20 ppb):	Room 153B (45.6 ppb)

Round of Testing:	Follow-Up – 30 sec Draw
# of Outlets Tested:	1

Project Status
Testing Complete: Remediation Plan

Room 153B – Replace fixture (M15466), in addition to supply line and valve located under sink

April 24, 2018

Mr. Brian Mullikin
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Drive
Building A, First Floor
Gaithersburg, Maryland 20879

Re: Lead in Water Testing Service

Location: Montgomery Village Middle School
19300 Watkins Mill Road
Montgomery Village, MD 20886

Dear Mr. Mullikin:

Professional Services Industries (PSI), Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of the initial and follow-up lead in water testing at Montgomery Village Middle School, located at 19300 Watkins Mill Road in Montgomery Village, MD 20886.

Scope of Services:

PSI conducted lead in water testing at Montgomery Village Middle School in accordance with the Environmental Protection Agency (EPA) and Maryland House Bill (HB) 270. State regulation established an action level of 20 parts per billion (ppb) to evaluate lead levels in school buildings, a concentration EPA recommends that schools take action to reduce lead below this action level. Maryland requires periodic testing for the presence of lead in drinking water in occupied public and nonpublic school buildings. EPA developed the 3T's (Training, Testing, and Telling) to assist schools in reducing the lead concentrations in their drinking water. More information about 3T's can be found on the EPA website.

PSI visited the site on 02/21/18 and 02/22/18 to collect samples from 60 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Draft Lead in Drinking Water—Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07. One 30 second follow-up sample was collected on 4/12/18.

Samples were submitted to a laboratory for lead in water analysis using current US EPA methodology. The laboratory has been certified by the Maryland Department of the Environment to analyze drinking water for lead.

Results:

There was one result of the initial lead in water analysis at or above 20 parts per billion (ppb) and subsequent follow up 30 second results are highlighted in the summary table below:

Barcode ID	Sample Location	Date Collected	Initial Sample Result (ppb)	Date Collected	30 Second Follow Up Sample Result (ppb)
M15466	Faucet – Room 153B inside of classroom 153	2/22/2018	45.6	4/12/18	<1.0

The initial lead in water sample results (2/22/18) and 30 second follow up results (4/12/18) are shown in Attachment A.

Discussion:

Lead is a naturally occurring element that can be harmful to humans when ingested or inhaled, particularly to children under the age of six. Lead can adversely affect the development of children's brain potentially leading to detrimental alterations in intelligence and behavior. Lead has been historically used in plumbing, paint and other building materials. Lead is released into the environment from industrial sources and fuel combustion. Lead may also be found in consumer products (imported candy, medicines, toys, dishes, etc.).

Most lead leaches into drinking water from contact with plumbing components such as faucets and valves made of brass or lead-containing solder. The physical and chemical interaction that occurs between the plumbing and water directly contributes to the amount of lead that is released into the water. Although plumbing components installed prior to the 1990's could contain more lead than newer materials, the amount of lead in the drinking water cannot be predicted by the age of building. The purpose of this regulation is to establish a program to minimize the risk of exposure to lead in drinking water outlets at schools.

Simple steps like keeping your home clean and well-maintained will go a long way in preventing lead exposure. These steps include inspecting and maintaining all painted surfaces to prevent paint deterioration, using only cold water to prepare food and drinks, flushing water outlets used for drinking or food preparation, and cleaning around painted areas where friction can generate dust, such as doors, windows, and drawers. Wipe these areas with a wet sponge or rag to remove paint chips or dust, and wash children's hands, bottles, pacifiers and toys often.

Respectfully Submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Nand Kaushik, P.E.
Department Manager, Environmental Services
Nand.Kaushik@psiusa.com

Attachments: A – Initial Lead in Water Test Summary Table

ATTACHMENT A

Montgomery Village MS Water Test Summary Table

Contractor: Professional Services Industries, Inc.
Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Montgomery Village Middle School (2/22/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW00456	110	Special Ed		Faucet	<1.0	Pass	Testing Complete
LW00457		Hallway	Left Of Room 128 Choral	Cooler	<1.0	Pass	Testing Complete
LW00458		Hallway	In Front Of Main Office	Cooler	<1.0	Pass	Testing Complete
LW00459	100E	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW00460	102	Health Room		Faucet	<1.0	Pass	Testing Complete
LW00461		Hallway	Right Of Health Room	Cooler	<1.0	Pass	Testing Complete
LW00462		Hallway	In Front Of Cafeteria	Cooler	<1.0	Pass	Testing Complete
LW00463	152	Cafeteria		Cooler	<1.0	Pass	Testing Complete
LW00464		Kitchen Cafeteria		Faucet	2.3	Pass	Testing Complete
LW00465		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00466		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00467		Kitchen Cafeteria		Faucet	4.9	Pass	Testing Complete
LW00468		Kitchen Cafeteria		Faucet	1.9	Pass	Testing Complete
LW00469		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00470		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00471		Kitchen Cafeteria		Faucet	1.3	Pass	Testing Complete
LW00472		Kitchen Cafeteria		Icemaker	<1.0	Pass	Testing Complete
LW00473		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00474	158	Special Ed	Inside Of Restroom 158a	Faucet	<1.0	Pass	Testing Complete
LW00475	158	Special Ed	158b	Faucet	<1.0	Pass	Testing Complete
LW00476	158	Special Ed	Inside Of Restroom 158b	Faucet	<1.0	Pass	Testing Complete
LW00477		Hallway	In Front Of Room 158b	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW00479		Hallway	Left Of Room 181	Cooler	<1.0	Pass	Testing Complete
LW00479		Hallway	Left Of Room 181	Cooler	<1.0	Pass	Testing Complete
LW00480		Hallway	Right Of Room 192	Cooler	<1.0	Pass	Testing Complete
LW00481	178	Conference Room		Faucet	<1.0	Pass	Testing Complete
LW00482		Hallway	Right Of Room 134	Cooler	<1.0	Pass	Testing Complete
LW00483		Hallway	Right Of Room 164	Cooler	<1.0	Pass	Testing Complete
LW01262		Hallway	Next To Room 048	Cooler	<1.0	Pass	Testing Complete
LW01263		Hallway	Next To Room 040	Cooler	<1.0	Pass	Testing Complete
LW01266	24	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01267		Hallway	In Front Of Room 020	Cooler	<1.0	Pass	Testing Complete
LW01269	019	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW01270	011	Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
M04515	137	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M04517	140	Break Room		Faucet	<1.0	Pass	Testing Complete
M04519	112	Special Ed		Faucet	<1.0	Pass	Testing Complete
M04520	112	Special Ed		Faucet	<1.0	Pass	Testing Complete
M12555	31	Conference Room		Faucet	<1.0	Pass	Testing Complete
M12557	29	Conference Room		Faucet	1.1	Pass	Testing Complete
M12559	24	Classroom		Faucet	<1.0	Pass	Testing Complete
M15462	120	Special Ed		Faucet	<1.0	Pass	Testing Complete
M15463	120	Special Ed		Faucet	<1.0	Pass	Testing Complete
M15466	153B	Classroom		Faucet	45.6	Fail	Follow-Up Testing Needed
M15467	153F	Lab Classroom	Inside Of Room 153	Faucet	2.0	Pass	Testing Complete
M15482	158	Special Ed	Room 158b	Faucet	<1.0	Pass	Testing Complete
M15483	158	Special Ed		Faucet	<1.0	Pass	Testing Complete
M15487	160	Classroom		Faucet	1.7	Pass	Testing Complete
M15488	160	Classroom		Faucet	1.5	Pass	Testing Complete
M15494	167	Conference		Faucet	1.2	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M15495	173	Conference		Faucet	1.0	Pass	Testing Complete
M15501	181	Classroom		Faucet	<1.0	Pass	Testing Complete
M15502	181	Classroom		Faucet	<1.0	Pass	Testing Complete
M15507	179	Office		Faucet	2.3	Pass	Testing Complete
M15508	180	Classroom		Faucet	1.0	Pass	Testing Complete
M15509	180	Classroom		Faucet	<1.0	Pass	Testing Complete
M45499	15	Conference		Faucet	<1.0	Pass	Testing Complete
M45507	174	Seminar Room		Faucet	<1.0	Pass	Testing Complete
M45508	174	Seminar Room		Faucet	<1.0	Pass	Testing Complete
M45518	128B	Storage Music	Inside Of Room 130	Faucet	<1.0	Pass	Testing Complete

*ppb = parts per billion

Contractor: Professional Services Industries, Inc.
Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Results for Montgomery Village MS (4/12/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2nd) (PPB)	Initial draw (3rd) (PPB)	30 Second Draw (PPB)	Status
M15466	153B	Classroom	Faucet	68.3	29.8	<1.0	Remediation required – replace fixture, in addition to supply line and valve located under sink

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd and 3rd round testing was performed on these fixture(s) for further diagnostics for remediation. Because the fixture was shut off after the first test, the subsequent test results may not be representative of an in-use fixture because of stagnant water in the supply line and the operation of shut off valves prior to the tests. All fixtures with elevated test results are to be remediated. After remediation, post remediation testing will be conducted before the fixture is returned to service.