



MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

May 10, 2018

Executive Summary:
Travilah Elementary School
13801 Dufief Mill Rd.
North Potomac, MD 20878

Round of Testing:	Initial
# of Outlets Tested:	64
# of Outlets \geq 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	25.3
Follow-Up Testing Required (Samples \geq 20 ppb):	Kitchen (25.3 ppb)

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

Project Status
Testing Complete: Remediation Plan

Kitchen – Replace fixture (LW01344), in addition to supply line and valve located under sink



May 10, 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: Travilah Elementary School
13801 Dufief Mill Rd.
North Potomac, MD 20878

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 initial lead in water testing at Travilah Elementary School, located at 13801 Dufief Mill Road in North Potomac, MD 20878.

Scope of Services:

PSI conducted lead in water testing at Travilah Elementary 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 3/8/18 and 3/9/18 to collect samples from 64 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 4/19/18.

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)
LW01344	Kitchen	3/09/2018	25.3	4/19/18	1.2

The initial lead in water sample results (03/09/2018) and 30 second follow up results (4/19/18) 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
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Attachments: A – Lead in Water Test Summary Table

ATTACHMENT A

Travilah ES Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Travilah Elementary School (3/9/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW01341	113	Kitchen		Faucet	2.9	Pass	Testing Complete
LW01342	113	Kitchen		Faucet	2.0	Pass	Testing Complete
LW01343	113	Kitchen		Faucet	1.7	Pass	Testing Complete
LW01344	113	Kitchen		Faucet	25.3	Fail	Follow Up Test Needed
LW01345	120	Classroom		Faucet	3.0	Pass	Testing Complete
LW01346	120	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01347	122	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01348	122	Classroom		Bubbler - Indoor	4.1	Pass	Testing Complete
LW01349		Hallway	Right Of Room 126	Cooler	<1.0	Pass	Testing Complete
LW01350	134	Classroom		Faucet	12.5	Pass	Testing Complete
LW01351	134	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01352	127	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01353	127	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01354	139	Classroom		Faucet	1.8	Pass	Testing Complete
LW01355	139	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01356	145	Classroom		Faucet	1.2	Pass	Testing Complete
LW01357	145	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01358	151	Classroom		Faucet	1.0	Pass	Testing Complete
LW01359	151	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01360		Hallway	Across From Room 147	Cooler	<1.0	Pass	Testing Complete
LW01361		Hallway	Across From Room 147	Cooler	<1.0	Pass	Testing Complete
LW01362	152	Classroom		Faucet	4.9	Pass	Testing Complete
LW01363	152	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01364	160	Classroom		Faucet	2.6	Pass	Testing Complete
LW01365	160	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW02185	155	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02186	155	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02187	155	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW02188	156	Classroom		Faucet	1.8	Pass	Testing Complete
LW02189	156	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02190	167	Classroom		Faucet	1.8	Pass	Testing Complete
LW02191	167	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02192	169	Classroom		Faucet	2.2	Pass	Testing Complete
LW02193	169	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02194	171	Classroom		Faucet	5.1	Pass	Testing Complete
LW02195	171	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02196	183	Classroom		Faucet	1.0	Pass	Testing Complete
LW02197	183	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07181	178	Classroom		Faucet	2.4	Pass	Testing Complete
LW07182	178	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07183	102	Health Room		Faucet	<1.0	Pass	Testing Complete
LW07207	119	Classroom		Faucet	5	Pass	Testing Complete
LW07208	119	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07209	121	Classroom		Faucet	3.4	Pass	Testing Complete
LW07210	121	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07211	123	Classroom		Faucet	3.9	Pass	Testing Complete
LW07212	123	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07213	125	Classroom		Faucet	4.0	Pass	Testing Complete
LW07214	135	Classroom		Faucet	2.1	Pass	Testing Complete
LW07215	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07216	141	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07217	141	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07218	147	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07219	147	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07220	162	Classroom		Faucet	1.2	Pass	Testing Complete
LW07221	162	Classroom		Bubbler - Indoor	3.0	Pass	Testing Complete
LW07222	114	Break Room		Faucet	<1.0	Pass	Testing Complete
LW07223	180	Classroom		Faucet	2.5	Pass	Testing Complete
LW07225	185	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07226	185	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07227	106	Work Room		Faucet	4.6	Pass	Testing Complete
M14671	109	Office Media Center		Faucet	2.0	Pass	Testing Complete
M14672		Hallway	Left Of Imc	Cooler	<1.0	Pass	Testing Complete
M14701		Hallway	Next to Gym	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Results for Travilah Elementary School (4/19/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 nd) (PPB)	Initial draw (3 rd) (PPB)	30 Second Draw (PPB)	Status
LW01344	113	Kitchen	Faucet	6.0	4.8	1.2	Remediation required – replace fixture, in addition to supply line and valve located under sink

*ppb = parts per billion

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.