



MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

June 8, 2018

Executive Summary:
Little Bennett Elementary School
23930 Burdette Forest Rd,
Clarksburg, MD 20871

Round of Testing:	Initial
# of Outlets Tested:	93
# of Outlets \geq 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	21.8
Follow-Up Testing Required (Samples \geq 20 ppb):	Room 111 (21.8 ppb)

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

Project Status
Testing Complete: Remediation Plan

Classroom 111– Replace fixture (M29110), in addition to supply line and valve located under sink



June 8, 2018

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

Re: Lead in Water Testing Service

Location: Little Bennett Elementary School
23930 Burdette Forest Rd
Clarksburg, MD 20871

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 Little Bennett Elementary School, located at 23930 Burdette Forest Rd Clarksburg, MD 20871.

Scope of Services:

PSI conducted lead in water testing at Little Bennett 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 4/17/18 and 4/18/18 to collect samples from 93 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 5/16/18.

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)
M29110	Classroom 111	4/18/18	21.8	5/16/18	ND

*ppb = parts per billion

ND = Non Detect

The initial lead in water sample results (4/18/18) and 30 second follow up results (5/16/18) 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

Little Bennett ES Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Little Bennett Elementary School (4/18/18)

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08663	138	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08664	141	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08665	141	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08666	142	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08667	157	Kindergarten		Faucet	1.3	Pass	Testing Complete
LW08668	161	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW08669	165	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW08670	165	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08684	169	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08685	173	Classroom		Faucet	1.0	Pass	Testing Complete
LW08686	175	Classroom		Faucet	3.6	Pass	Testing Complete
LW08687	172	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08688	179	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08689	176	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08690	176	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08691	181	Classroom		Faucet	3.2	Pass	Testing Complete
LW08693	128	Art		Faucet	1.0	Pass	Testing Complete
LW08694	128	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08695	126	Music		Faucet	<1.0	Pass	Testing Complete
LW08696	126	Music		Faucet	<1.0	Pass	Testing Complete
LW08697	126	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08698	106	Break Room		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08699	100C	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW08700	258	Classroom		Faucet	1.4	Pass	Testing Complete
LW08701	246	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08702	246	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08703	249	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08704	249	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08705	242	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08706	242	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08707	245	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08708	245	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08709	239	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08905	243	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08906	235	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08907	235	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08908	221	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08909	214	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08910	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08911	211	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08912	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08913	207	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08914	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M29099	102	Health		Faucet	5.9	Pass	Testing Complete
M29101	102C	Health		Faucet	<1.0	Pass	Testing Complete
M29102		Hallway	Next To 116	Cooler	<1.0	Pass	Testing Complete
M29103		Hallway	Next To 116	Cooler	<1.0	Pass	Testing Complete
M29110	111	Work Room Media Center		Faucet	21.8	Fail	Follow-Up Testing Needed
M29111	178	Hallway	Left Of 178	Cooler	<1.0	Pass	Testing Complete
M29112		Hallway	Left Of 178	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M29124	179	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29128	172	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29130	175	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29132	173	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29134	169	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29139	161	Kindergarten		Bubbler	<1.0	Pass	Testing Complete
M29142	157	Kindergarten		Bubbler	1.7	Pass	Testing Complete
M29144	155	Kindergarten		Faucet	1.9	Pass	Testing Complete
M29145	155	Kindergarten		Bubbler	3.5	Pass	Testing Complete
M29147	151	Classroom		Faucet	1.0	Pass	Testing Complete
M29148	151	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29151	142	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29155	138	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29156	137	Classroom		Faucet	<1.0	Pass	Testing Complete
M29157	137	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29158		Hallway	Next To 134	Cooler	<1.0	Pass	Testing Complete
M29159		Hallway	Next To 134	Cooler	<1.0	Pass	Testing Complete
M29171		Kitchen		Faucet	1.5	Pass	Testing Complete
M29172		Kitchen		Faucet	19.0	Pass	Testing Complete
M29173		Kitchen		Faucet	1.9	Pass	Testing Complete
M29174		Kitchen		Faucet	<1.0	Pass	Testing Complete
M29179	122	Music		Faucet	3.7	Pass	Testing Complete
M29180	122	Music		Bubbler	4.2	Pass	Testing Complete
M29181	124	Music		Faucet	<1.0	Pass	Testing Complete
M29185		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
M29186		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
M29196		Hallway	Next To 248	Cooler	<1.0	Pass	Testing Complete
M29197		Hallway	Next To 248	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M29215	243	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29217	239	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29219	211	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29220		Hallway	Next To 206	Cooler	<1.0	Pass	Testing Complete
M29221		Hallway	Next To 206	Cooler	<1.0	Pass	Testing Complete
M29231	203	Office		Faucet	<1.0	Pass	Testing Complete
M29236	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M29238	231	Classroom		Faucet	3.0	Pass	Testing Complete
M29239	231	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29240	227	Classroom		Faucet	<1.0	Pass	Testing Complete
M29240	227	Classroom		Faucet	<1.0	Pass	Testing Complete
M29241	227	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29242	225	Classroom		Faucet	<1.0	Pass	Testing Complete
M29243	225	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29244	221	Classroom		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 Little Bennett Elementary School (5/16/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 nd) (PPB)	30 Second Draw (PPB)	Status
M29110	111	Workroom	Faucet	1.3	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink

*ppb = parts per billion
ND = Non Detect

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd 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.