



**MONTGOMERY COUNTY PUBLIC SCHOOLS  
LEAD IN DRINKING WATER TESTING 2018**

**Executive Summary:**  
**Captain James E. Daly Elementary School**  
20301 Brandermill Drive  
Germantown, MD 20876

Date of Test Report:	6/1/2018
Round of Testing:	Initial
# of Outlets Tested:	82
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	16.6

**Project Status**  
**Initial testing complete:** All results less than 20 ppb.



June 7, 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: Captain James E. Daly Elementary School  
20301 Brandermill Drive  
Germantown, MD 20876

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 Captain James E. Daly Elementary School, located at 20301 Brandermill Drive, Germantown, MD 20876.

**Scope of Services:**

PSI conducted lead in water testing at Captain James E. Daly 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 4/19/18 and 4/20/18 to collect samples from 82 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.

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 were no results of the lead in water analysis at or above 20 parts per billion (ppb).

The lead in water sample results < 20 ppb for sample collection date 4/20/18 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](mailto:Nand.Kaushik@psiusa.com)

Attachments:           A – Lead in Water Test Summary Table

# ATTACHMENT A

## Lead in Water Test Summary Table

**Contractor:** Professional Services Industries, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

### Sample Results for Captain James E. Daly Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09263		Hallway	Across From Cr 121	Cooler	<1.0	Pass	Testing Complete
LW09264	120	Music		Faucet	<1.0	Pass	Testing Complete
LW09265	120	Music		Bubbler - Indoor	3.8	Pass	Testing Complete
LW09266	121	Music		Bubbler - Indoor	12.9	Pass	Testing Complete
LW09267	119	Art		Faucet	<1.0	Pass	Testing Complete
LW09268	119	Art		Bubbler - Indoor	2.6	Pass	Testing Complete
LW09269		Hallway	Next To 115 Machine Room	Cooler	<1.0	Pass	Testing Complete
LW09270	149	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09271	148	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09272	147	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW09273	145	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09274	144	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW09275	143	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09276	142	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW09277	136	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09278	139	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09279	146	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09280	137	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09281	138	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09282	138	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09284	134	Classroom		Faucet	1.1	Pass	Testing Complete
LW09286	134	Classroom		Faucet	1.4	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09287	129	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09288	129	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09289	128	Reading		Faucet	<1.0	Pass	Testing Complete
LW09291	132	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW09292	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09293	100A	Work Room	Media Center	Faucet	1.0	Pass	Testing Complete
LW09294	120	Health Room		Faucet	<1.0	Pass	Testing Complete
LW09296	103	Work Room		Faucet	1.5	Pass	Testing Complete
LW09297	103	Work Room		Bubbler - Indoor	16.6	Pass	Testing Complete
LW09298	112	Break Room		Faucet	<1.0	Pass	Testing Complete
LW09300	228	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09302	229	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09303	229	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09304	227	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09305	226	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09306	225	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09307	224	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09308	223	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09309	223	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW09310	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09311	221	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
M15658		Hallway	Near Stair 3 between Bathrooms	Cooler	<1.0	Pass	Testing Complete
M15664	228	Classroom		Faucet	<1.0	Pass	Testing Complete
M15666	231	Classroom		Faucet	<1.0	Pass	Testing Complete
M15669	226	Classroom		Faucet	<1.0	Pass	Testing Complete
M15671	227	Classroom		Faucet	<1.0	Pass	Testing Complete
M15673	224	Classroom		Faucet	1.1	Pass	Testing Complete
M15675	225	Classroom		Faucet	1.1	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M15677	222	Classroom		Faucet	1.4	Pass	Testing Complete
M15681	221	Classroom		Faucet	1.5	Pass	Testing Complete
M15689	208	Work Room		Faucet	6.0	Pass	Testing Complete
M15691	209	Resource Center		Faucet	<1.0	Pass	Testing Complete
M15693	214	Classroom		Faucet	1.5	Pass	Testing Complete
M15694	214	Classroom		Bubbler - Indoor	6.8	Pass	Testing Complete
M15695		Hallway	Between GBR 218 and BBR 217	Cooler	<1.0	Pass	Testing Complete
M15701	149	Classroom		Faucet	<1.0	Pass	Testing Complete
M15703	148	Classroom		Faucet	<1.0	Pass	Testing Complete
M15708	147	Classroom		Faucet	<1.0	Pass	Testing Complete
M15710	146	Classroom		Faucet	<1.0	Pass	Testing Complete
M15712	145	Classroom		Faucet	1.5	Pass	Testing Complete
M15714	144	Classroom		Faucet	<1.0	Pass	Testing Complete
M15716	143	Classroom		Faucet	<1.0	Pass	Testing Complete
M15718	142	Classroom		Faucet	<1.0	Pass	Testing Complete
M15721		Hallway	Next to BBR 141	Cooler	<1.0	Pass	Testing Complete
M15725	137	Classroom		Faucet	<1.0	Pass	Testing Complete
M15727	139	Classroom		Faucet	<1.0	Pass	Testing Complete
M15729	136	Classroom		Faucet	<1.0	Pass	Testing Complete
M15731	135	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M15734	135	Classroom		Faucet	<1.0	Pass	Testing Complete
M15736	135	Classroom		Faucet	1.6	Pass	Testing Complete
M15746	128	Reading		Bubbler - Indoor	7.7	Pass	Testing Complete
M15748	133	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M15749	133	Classroom		Faucet	1.5	Pass	Testing Complete
M15750	133	Classroom		Faucet	1.0	Pass	Testing Complete
M15753	132	Classroom		Faucet	<1.0	Pass	Testing Complete
M15755	132	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M15763	121	Inst Music		Faucet	5.6	Pass	Testing Complete
M15777		Kitchen		Faucet	3.1	Pass	Testing Complete
M15780		Kitchen		Faucet	<1.0	Pass	Testing Complete
M15782		Kitchen		Faucet	<1.0	Pass	Testing Complete

\*ppb = parts per billion