



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary: Division of Food and Nutrition

8401 Turkey Thicket Drive
Gaithersburg, MD 20879

Date of Test Report:	06/27/2018
Round of Testing:	Initial
# of Outlets Tested:	48
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	8.6

Project Status

Initial testing complete: All results less than 20 ppb.



June 27, 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: Division of Food and Nutrition
8401 Turkey Thicket Drive
Gaithersburg, MD 20879

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 the Division of Food and Nutrition, located at 8401 Turkey Thicket Drive, Gaithersburg, MD 20879.

Scope of Services:

PSI conducted lead in water testing at the Division of Food and Nutrition 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 1/24/18 and 01/25/18 to collect samples from 48 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.

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 1/25/18 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

Lead in Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for The Division of Food and Nutrition

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00014	1047	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00015	1047	Kitchen		Faucet	1.0	Pass	Testing Complete
LW00016	1047	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00017	1047	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00018	1047	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00019	1054	Storage	Inside Of Room 1047	Faucet	3.5	Pass	Testing Complete
LW00020	1054	Storage	Inside Of Room 1047	Faucet	<1.0	Pass	Testing Complete
LW00021	1056	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00022	1056	Kitchen		Faucet	1.2	Pass	Testing Complete
LW00023	1056	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00024	1056	Kitchen		Faucet	1.9	Pass	Testing Complete
LW00025	1056	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00026	1056	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00027	1009	Dining Hall		Faucet	<1.0	Pass	Testing Complete
LW00028	1009	Dining Hall		Faucet	<1.0	Pass	Testing Complete
LW00029	1039	Kitchen		Faucet	1.3	Pass	Testing Complete
LW00030	1039	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00031	1039	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00032	1039	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00033	1039	Kitchen		Faucet	8.0	Pass	Testing Complete
LW00034	1039	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00035	1039	Kitchen		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00036	1039	Kitchen		Icemaker	<1.0	Pass	Testing Complete
LW00037	1039	Kitchen		Instant Hot Water	<1.0	Pass	Testing Complete
LW00038	1047	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00039	1047	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00040	1056	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00041	1056	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00042	1056	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00043	1056	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00044	1056	Kitchen		Faucet	8.6	Pass	Testing Complete
LW00045	1056	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00046	1045	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00047	1045	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00048	1045	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00049	1045	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00050	1045	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00051		Hallway	Next To 1028	Cooler	<1.0	Pass	Testing Complete
LW00052		Hallway	Next To 1028	Cooler	<1.0	Pass	Testing Complete
LW00053	1033	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00054	1033	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00055	1033	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00056	1033	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00057	1033	Kitchen		Faucet	1.3	Pass	Testing Complete
LW00058	1033	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00059		Hallway	Next To 2002	Cooler	<1.0	Pass	Testing Complete
LW00060		Hallway	Next To 2002	Cooler	<1.0	Pass	Testing Complete
LW00061	2004	Health Room		Faucet	<1.0	Pass	Testing Complete

*ppb = parts per billion