



## Montgomery County Public Schools Lead in Drinking Water Testing 2018

April 27, 2018

**Executive Summary:**  
**Rock View Elementary School**  
3901 Denfeld Avenue  
Kensington, Maryland 20895

Round of Testing:	Initial
# of Outlets Tested:	96
# of Outlets $\geq 20$ ppb:	1
Low Value (ppb):	<1.0
High Value (ppb):	40.6
Follow-Up Testing Required (Samples $\geq 20$ ppb):	Classroom 205 (40.6 ppb)

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

**Project Status:**  
**Testing Complete: Remediation Plan**

Classroom 205 - Replace fixture (LW02987), in addition to supply line and valve located under sink



April 27, 2018

Mr. Brian Mullikin, MS  
Environmental Team Leader  
Montgomery County Public Schools  
Division of Maintenance  
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634186

**Location: Rock View Elementary School**

3901 Denfeld Avenue  
Kensington, Maryland 20895

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of initial and follow-up lead in water testing at Rock View Elementary School, located at 3901 Denfeld Avenue in Kensington, Maryland 20895.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Rock View 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.

KCI visited the site on 2/7/2018 and 2/8/2018 to collect samples from 96 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. On 4/11/2018, one 30 second follow-up sample was collected.

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.

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## **RESULTS**

There was one result of the 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:

<b>Barcode ID</b>	<b>Sample Location</b>	<b>Date Collected</b>	<b>Initial Sample Result (ppb)</b>	<b>Date Collected</b>	<b>30 Second Follow Up Sample Result (ppb)</b>
LW02987	Faucet - Classroom 205	2/8/2018	40.6	4/11/2018	ND

The initial lead in water sample results (2/8/2018) and 30 second follow up results (4/11/2018) 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.

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Respectfully Submitted,  
KCI Technologies, Inc.



Kamau McAbee  
MDE Certified Water Sampler #8281KM

Attachment:

A- Lead in Water Test Summary Table

# ATTACHMENT A

## Lead in Water Test Summary Table

ATTACHMENT A

Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Rock View Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02865	186	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02866	185	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02867	185	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02868	188	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02870	190	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02871	190	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02872	125	Break Room		Faucet	<1.0	Pass	Testing Complete
LW02873	132	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02874	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02875	130	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02876	130	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02877	128	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02878	217	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02879	217	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02880	214	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02882	216	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02883	216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02884	218	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02885	218	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02886	220	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02887	220	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02888	222	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02889	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02890	221	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02929	172	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02930	141	Work Room		Faucet	<1.0	Pass	Testing Complete
LW02931	142	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02932	142	Classroom		Faucet	1.8	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02933	144	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02934	144	Classroom		Faucet	2.5	Pass	Testing Complete
LW02935	146	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02936	146	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02937	148	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02938	148	Classroom		Faucet	1.3	Pass	Testing Complete
LW02939	162	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02941	153	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02942	153	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02956	172	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02957	116C	Kitchen All Purpose Room		Faucet	1.1	Pass	Testing Complete
LW02958	102	Health Room Administration		Faucet	<1.0	Pass	Testing Complete
LW02959	163	Classroom		Faucet	2.2	Pass	Testing Complete
LW02960	163	Therapy		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02961	161	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02962	161	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02963	170	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02964	170	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02965	168	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02966	168	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02967	166	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02968	166	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02969	186	Classroom		Faucet	1.2	Pass	Testing Complete
LW02970	184	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02971	184	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02972	182	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02973	182	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02974	181	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02975	181	Music		Faucet	1.8	Pass	Testing Complete
LW02976	127	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW02977	138	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02978	138	Classroom		Faucet	1.5	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02979	140	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02980	140	Classroom		Faucet	1.1	Pass	Testing Complete
LW02981	141	Work Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02982	221	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02983	219	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02984	219	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02985	203	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02987	205	Classroom		Faucet	40.6	Fail	Follow-up Testing Needed
LW02988	205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02989	207	Classroom		Faucet	1.1	Pass	Testing Complete
LW02990	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02991	209	Classroom		Faucet	2.2	Pass	Testing Complete
LW02992	209	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02993	211	Classroom		Faucet	1.9	Pass	Testing Complete
LW02994	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02995	213	Classroom		Faucet	3.6	Pass	Testing Complete
LW02996	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02997	213	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03008	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03009	126	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03010	126	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03011	116	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03012	116	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03013	114	Choral		Faucet	2.4	Pass	Testing Complete
LW03014	114	Choral		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03015	111	Classroom		Faucet	2.2	Pass	Testing Complete
LW03016	111	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03017	112	Art		Faucet	<1.0	Pass	Testing Complete
LW03018	112	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03019	109	Speech Therapy		Faucet	<1.0	Pass	Testing Complete
LW03020	109	Speech Therapy		Bubbler - Indoor	<1.0	Pass	Testing Complete
M03189	109	Hallway	Hall Across from 109	Cooler	<1.0	Pass	Testing Complete



Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M03204	116C	Kitchen All Purpose Room		Faucet	4.2	Pass	Testing Complete
M03205	116C	Kitchen All Purpose Room		Faucet	<1.0	Pass	Testing Complete
M03206	116C	Kitchen		Faucet	<1.0	Pass	Testing Complete
M03249	150	Hallway	Hall Right of 148	Cooler	<1.0	Pass	Testing Complete

\*PPB = Parts per billion

**Contractor:** KCI Technologies, Inc.

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

Follow Up Sample Result for Rock View Elementary School

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PPB)*	Status
LW02987	205	Classroom	Faucet	10.9	15.3	ND	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.