



An Employee Owned Company

December 13, 2017

Steven Lee
Alameda Unified School District MOF
2060 Challenger Drive
Alameda, CA 94501

transmitted via email to stlee@alameda.k12.ca.us

Re: **Drinking Water Lead Sampling Results**
Alameda Unified School District (AUSD) – Chipman Middle School Drinking Fountains
401 Pacific Ave, Alameda, CA
ACC Project No. 3007-119.00

Dear Mr. Lee:

Enclosed please find the laboratory test results for the drinking water sampling performed at the above-referenced site on December 1, 2017. The sampling was performed to determine lead concentrations in drinking water at drinking fountain locations throughout the school.

The intent of the testing was to collect drinking water samples to determine if lead concentrations at drinking water locations exceed the EPA and California Lead Action Levels. The EPA and State of California Lead Action Levels for lead in drinking water are concentrations exceeding 15 parts per billion (ppb). ACC collected drinking water samples from fifteen (15) locations at the school. At each location, ACC collected water samples as “first-draw” and “post-flush” samples. First-draw samples were collected after non-use for a minimum of eight (8) continuous hours. Post-flush samples were collected after running the tap for at least thirty (30) seconds. The samples were collected in 125 milliliter bottles preserved with nitric acid and were submitted under standard chain of custody protocols to Forensic Analytical of Hayward, California, an American Industrial Hygiene Association (AIHA) accredited laboratory, for analysis. Samples were analyzed for lead in accordance with the EPA SM3113B Test Method.

ACC collected a total of 30 drinking water samples at 15 drinking fountain locations for analysis. Copies of the laboratory results are attached.

Drinking Water Sample Results

The water samples were obtained from drinking fountain locations as listed herein. The sample numbers, locations, type of draw and lead concentrations are listed below. ACC collected drinking water samples from the main drinking water sources. Not all water sources were sampled.

Sample Number	Location	Type of Draw	Lead Concentration in Parts Per Billion (PPB)
WS-399-FD	Office Break Area	First Draw	6
WS-399-PF		Post-Flush	<5
WS-400-FD	Southwest 1 st Floor Walkway	First Draw	<5
WS-400-PF		Post-Flush	<5
WS-401-FD	Southeast 1 st Floor Walkway	First Draw	<5
WS-401-PF		Post-Flush	<5
WS-402-FD	Staff Room Sink	First Draw	<5
WS-402-PF		Post-Flush	<5
WS-403-FD	Cafeteria Kitchen Sink	First Draw	<5
WS-403-PF		Post-Flush	<5
WS-404-FD	Walkway East by Multi-Purpose Room	First Draw	<5
WS-404-PF		Post-Flush	<5
WS-405-FD	Room 106 Right Sink	First Draw	<5
WS-405-PF		Post-Flush	<5
WS-406-FD	Room 106 Left Sink	First Draw	<5
WS-406-PF		Post-Flush	<5
WS-407-FD	Room 203	First Draw	17
WS-407-PF		Post-Flush	<5
WS-408-FD	2 nd Floor West Walkway by Room 203	First Draw	<5
WS-408-PF		Post-Flush	<5
WS-409-FD	2 nd Floor East Walkway by Room 213	First Draw	<5
WS-409-PF		Post-Flush	<5
WS-410-FD	Room 220	First Draw	<5
WS-410-PF		Post-Flush	<5
WS-411-FD	Room 221	First Draw	<5
WS-411-PF		Post-Flush	<5
WS-412-FD	Southeast Playground Area Boiler Room Wall Right Fountain	First Draw	<5
WS-412-PF		Post-Flush	<5
WS-413-FD	Southeast Playground Area Boiler Room Wall Left Fountain	First Draw	<5
WS-413-PF		Post-Flush	<5

One of the first-draw water sample concentrations at ‘Room 203’ Drinking Fountain was above the EPA and California Lead Action Level of 15 PPB. When the first-draw and post-flush samples are both elevated this may indicate leaching of lead from the fixture and distribution water lines in the building. When the pre-flush only is elevated, this usually indicates localized corrosion issues within the faucet, fittings and/or connections.

The EPA and California Lead Action Levels are used to protect the public from metals that can adversely affect their health. These laws require water systems to monitor lead levels at the consumers’ taps. If Action Levels for

lead (15 ppb) are exceeded, installation or modifications to corrosion control treatment is required. In addition, if the action level for lead is exceeded, public notification is required.

Recommendations

Based on the results of the drinking water investigation, ACC makes the following recommendations:

- ACC recommends disconnecting/replacing the fixture at the 'Room 203' Drinking Fountain location where the first-draw water sampling concentration exceeded the action level and subsequent re-sampling at this location.

Limitations

ACC shall not be responsible for claims that may arise out of failure to correct problems or to identify problems that may exist at this location. ACC assumes no responsibility for damages for work performed or errors in documentation or missing information. ACC does not guarantee the accuracy of information provided by other parties. All statements and/or recommendations are based on conditions observed and tested at the time of the inspection. The scope of the investigation for this report was to collect representative drinking water samples from several locations at the school. ACC has not investigated and does not possess any opinion regarding other drinking water locations within the building. This report does not intend to identify all hazards or unsafe conditions, or to indicate that other hazards or unsafe conditions do not exist at the subject site.

Please contact me at (510) 638-8400 ext. 109 if you have any questions.

Sincerely,

ACC ENVIRONMENTAL CONSULTANTS, INC.



Ben Schulte-Bisping
Project Manager
California Department of Public Health Lead I/A/M #24564



Mark A. Sanchez, CHMM
President
California Department of Public Health Lead I/A/M/S #5150

Attachments: Forensic Analytical Metals Analysis of Drinking Water Report #M192547, dated 12/12/17.

Metals Analysis of Drinking Water

ACC Environmental Consultants

Ben Schulte

7977 Capwell Dr., Suite 100

Oakland, CA 94621

Client ID: 1117

Report Number: M192547

Date Received: 12/04/17

Date Analyzed: 12/12/17

Date Printed: 12/12/17

First Reported: 12/12/17

Job ID / Site: 3007-119.00, Chipman MS, 401 Pacific Ave., Alameda

Date(s) Collected: 12/1/17

FALI Job ID: 1117-1506

Total Samples Submitted: 30

Total Samples Analyzed: 30

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
WS-399-FD	30787953	Pb	6	ppb	5	SM 3113B
WS-399-PF	30787954	Pb	< 5	ppb	5	SM 3113B
WS-400-FD	30787955	Pb	< 5	ppb	5	SM 3113B
WS-400-PF	30787956	Pb	< 5	ppb	5	SM 3113B
WS-401-FD	30787957	Pb	< 5	ppb	5	SM 3113B
WS-401-PF	30787958	Pb	< 5	ppb	5	SM 3113B
WS-402-FD	30787959	Pb	< 5	ppb	5	SM 3113B
WS-402-PF	30787960	Pb	< 5	ppb	5	SM 3113B
WS-403-FD	30787961	Pb	< 5	ppb	5	SM 3113B
WS-403-PF	30787962	Pb	< 5	ppb	5	SM 3113B
WS-404-FD	30787963	Pb	< 5	ppb	5	SM 3113B
WS-404-PF	30787964	Pb	< 5	ppb	5	SM 3113B
WS-405-FD	30787965	Pb	< 5	ppb	5	SM 3113B
WS-405-PF	30787966	Pb	< 5	ppb	5	SM 3113B
WS-406-FD	30787967	Pb	< 5	ppb	5	SM 3113B
WS-406-PF	30787968	Pb	< 5	ppb	5	SM 3113B
WS-407-FD	30787969	Pb	17	ppb	5	SM 3113B
WS-407-PF	30787970	Pb	< 5	ppb	5	SM 3113B
WS-408-FD	30787971	Pb	< 5	ppb	5	SM 3113B
WS-408-PF	30787972	Pb	< 5	ppb	5	SM 3113B
WS-409-FD	30787973	Pb	< 5	ppb	5	SM 3113B
WS-409-PF	30787974	Pb	< 5	ppb	5	SM 3113B
WS-410-FD	30787975	Pb	< 5	ppb	5	SM 3113B
WS-410-PF	30787976	Pb	< 5	ppb	5	SM 3113B
WS-411-FD	30787977	Pb	< 5	ppb	5	SM 3113B
WS-411-PF	30787978	Pb	< 5	ppb	5	SM 3113B
WS-412-FD	30787979	Pb	< 5	ppb	5	SM 3113B



Metals Analysis of Drinking Water

ACC Environmental Consultants
Ben Schulte
7977 Capwell Dr., Suite 100

Oakland, CA 94621

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FALI Job ID: 1117-1506
Total Samples Submitted: 30
Total Samples Analyzed: 30

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
WS-412-PF	30787980	Pb	< 5	ppb	5	SM 3113B
WS-413-FD	30787981	Pb	< 5	ppb	5	SM 3113B
WS-413-PF	30787982	Pb	< 5	ppb	5	SM 3113B

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Daniele Siu

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

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Report Results			
Report To:	Ben Schulte-Bisping	Phone:	510-773-0708
Email Address:	bschulte@accenv.com		
Turnaround Time:	5-day		



BULK SAMPLE ANALYSIS REQUEST FORM (v2015.12.09)

Project Name:	Chipman MS			Analysis Requested	
Project Address:	401 Pacific Ave, Alameda				
ACC Project Number:	3007-119.00	<input type="checkbox"/> PLM: Standard	<input type="checkbox"/> TEM: Qualative	<input type="checkbox"/> PCB's: (Arochlors Only)	<input type="checkbox"/> Bacteria
Collected By:	B. Schulte	Sample Date:	12/1/17	<input type="checkbox"/> PLM: Point Count (400)	<input type="checkbox"/> TEM: Quantitive
Notes/ Comments:	Lead in Drinking Water			<input type="checkbox"/> PCB's: (Arochlors & Congeners)	<input type="checkbox"/> Particulate
		<input type="checkbox"/> PLM: Point Count (1000)	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Fungi: Direct Exam	<input type="checkbox"/> Other

Material Code	HM Number	Sample Number	Material Description	Sample Location	Size
WS	399	FD	Drinking Water	Office Break Area	
WS	399	PF		↓	
WS	400	FD		SW 1 st FL. walkway	
WS	400	PF		↓	
WS	401	FD		SE 1 st FL. walkway	
WS	401	PF		↓	
WS	402	FD		Staff Room Sink	
WS	402	PF		↓	
WS	403	FD		Kitchen Sink	
WS	403	PF		↓	
WS	404	FD		Walkway east by Multi-purpose Room	
WS	404	PF		↓	
WS	405	FD		Room 106 Right Sink	
WS	405	PF		↓	
WS	406	FD		Room 106 Left Sink	
WS	406	PF		↓	
WS	407	FD		Room 203	
WS	407	PF		↓	
WS	408	FD		2 nd FL. W. walkway by Room 203	
WS	408	PF		↓	
WS	409	FD		2 nd FL. E. walkway by Room 213	
WS	409	PF			

Released By (Name):	<i>B. Schulte</i>	Released By (Signature):	<i>[Signature]</i>	Date:		Time:	
Received By (Name):		Received By (Signature):	<i>ajm</i>	Date:		Time:	12:45
Laboratory Performing Analysis:	Forensic						



