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CONSULTANTS
An Employee Owned Company

December 18, 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) – Woodstock Charter (NEA/ACLC) School Drinking Fountains**
**1900 Third St, 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 twenty (20) 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 40 drinking water samples at 20 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-379-FD | Room 1 | First Draw | <5 |
| WS-379-PF | | Post-Flush | <5 |
| WS-380-FD | Room 2 | First Draw | <5 |
| WS-380-PF | | Post-Flush | <5 |
| WS-381-FD | Room 6 | First Draw | <5 |
| WS-381-PF | | Post-Flush | <5 |
| WS-382-FD | Room 7 | First Draw | <5 |
| WS-382-PF | | Post-Flush | <5 |
| WS-383-FD | Room 8 | First Draw | <5 |
| WS-383-PF | | Post-Flush | <5 |
| WS-384-FD | South Boys Restroom | First Draw | <5 |
| WS-384-PF | | Post-Flush | <5 |
| WS-385-FD | South Walkway by Restrooms | First Draw | <5 |
| WS-385-PF | | Post-Flush | <5 |
| WS-386-FD | South Girls Restroom | First Draw | <5 |
| WS-386-PF | | Post-Flush | <5 |
| WS-387-FD | Room 9 | First Draw | <5 |
| WS-387-PF | | Post-Flush | <5 |
| WS-388-FD | Room 11 – Computer Lab | First Draw | 13 |
| WS-388-PF | | Post-Flush | <5 |
| **WS-389-FD** | **Room 12** | **First Draw** | **22** |
| WS-389-PF | | Post-Flush | <5 |
| WS-390-FD | Northwest Walkway | First Draw | <5 |
| WS-390-PF | | Post-Flush | <5 |
| WS-391-FD | Room 15 | First Draw | 9 |
| WS-391-PF | | Post-Flush | <5 |
| **WS-392-FD** | **Room 16** | **First Draw** | **22** |
| WS-392-PF | | Post-Flush | <5 |
| WS-393-FD | Room 20 | First Draw | <5 |
| WS-393-PF | | Post-Flush | <5 |
| WS-394-FD | Room 21 | First Draw | 8 |
| WS-394-PF | | Post-Flush | <5 |
| **WS-395-FD** | **Room 22** | **First Draw** | **28** |
| WS-395-PF | | Post-Flush | <5 |
| WS-396-FD | Playground North by Room 22 | First Draw | <5 |
| WS-396-PF | | Post-Flush | <5 |
| WS-397-FD | Playground Southwest | First Draw | <5 |
| WS-397-PF | | Post-Flush | <5 |
| WS-398-FD | Health Center Sink (Portable 27) | First Draw | 11 |
| WS-398-PF | | Post-Flush | <5 |

Three of the first-draw water sample concentrations at 'Room 12', 'Room 16', and 'Room 22' Drinking Fountain were 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 fixtures at 'Room 12', 'Room 16', and 'Room 22' Drinking Fountain locations where the first-draw water sampling concentrations exceeded the action level and subsequent re-sampling at these locations.

**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.

B. Schulte-Bisping

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 #M192552, dated 12/15/17.

Forensic Analytical LABORATORIES

# Metals Analysis of Drinking Water

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

Oakland, CA 94621

**Client ID:** 1117
**Report Number:** M192552
**Date Received:** 12/04/17
**Date Analyzed:** 12/15/17
**Date Printed:** 12/15/17
**First Reported:** 12/15/17

**Job ID / Site:** 3007-119.00, Woodstock Charter, Nea Community Learning Center, 1900 3rd St., Alameda
**Date(s) Collected:** 12/1/17

**FALI Job ID:** 1117-1506
**Total Samples Submitted:** 40
**Total Samples Analyzed:** 40

| Sample Number | Lab Number | Analyte | Result | Result Units | Reporting Limit* | Method Reference |
|---|---|---|---|---|---|---|
| WS-379-FD | 30787996 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-379-PF | 30787997 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-380-FD | 30787998 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-380-PF | 30787999 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-381-FD | 30788000 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-381-PF | 30788001 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-382-FD | 30788002 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-382-PF | 30788003 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-383-FD | 30788004 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-383-PF | 30788005 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-384-FD | 30788006 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-384-PF | 30788007 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-385-FD | 30788008 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-385-PF | 30788009 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-386-FD | 30788010 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-386-PF | 30788011 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-387-FD | 30788012 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-387-PF | 30788013 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-388-FD | 30788014 | Pb | 13 | ppb | 5 | SM 3113B |
| WS-388-PF | 30788015 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-389-FD | 30788016 | Pb | 22 | ppb | 5 | SM 3113B |
| WS-389-PF | 30788017 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-390-FD | 30788018 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-390-PF | 30788019 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-391-FD | 30788020 | Pb | 9 | ppb | 5 | SM 3113B |
| WS-391-PF | 30788021 | Pb | < 5 | ppb | 5 | SM 3113B |



3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Forensic Analytical LABORATORIES

# Metals Analysis of Drinking Water

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

Oakland, CA 94621

**Client ID:** 1117
**Report Number:** M192552
**Date Received:** 12/04/17
**Date Analyzed:** 12/15/17
**Date Printed:** 12/15/17
**First Reported:** 12/15/17

**Job ID / Site:** 3007-119.00, Woodstock Charter, Nea Community Learning Center, 1900 3rd St., Alameda
**Date(s) Collected:** 12/1/17

**FALI Job ID:** 1117-1506
**Total Samples Submitted:** 40
**Total Samples Analyzed:** 40

| Sample Number | Lab Number | Analyte | Result | Result Units | Reporting Limit* | Method Reference |
|---|---|---|---|---|---|---|
| WS-392-FD | 30788022 | Pb | 22 | ppb | 5 | SM 3113B |
| WS-392-PF | 30788023 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-393-FD | 30788024 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-393-PF | 30788025 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-394-FD | 30788026 | Pb | 8 | ppb | 5 | SM 3113B |
| WS-394-PF | 30788027 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-395-FD | 30788028 | Pb | 28 | ppb | 5 | SM 3113B |
| WS-395-PF | 30788029 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-396-FD | 30788030 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-396-PF | 30788031 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-397-FD | 30788032 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-397-PF | 30788033 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-398-FD | 30788034 | Pb | 11 | ppb | 5 | SM 3113B |
| WS-398-PF | 30788035 | 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





3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

| 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: | Woodstock Charter - Nea Community Learning Center | | | | | | |
| Project Address: | 1900 3rd St, Alameda | | | Analysis Requested | | | |
| ACC Project Number: | 3007-119.00 | ☐ PLM: Standard | ☐ TEM: Qualative | ☐ PCB's: (Arochlors Only) | ☐ Bacteria | | |
| Collected By: | B. Schulte | Sample Date: 12/1/17 | ☐ PLM: Point Count (400) | ☐ TEM: Quantitive | ☐ PCB's: (Arochlors & Congeners) | ☐ Particulate | |
| Notes/ Comments: | Lead in | | ☐ PLM: Point Count (1000) | ☒ Lead | ☐ Fungi: Direct Exam | ☐ Other | |

| Material Code | HM Number | Sample Number | Material Description | Sample Location | Size |
|---|---|---|---|---|---|
| WS | 379 | FD | Drinking water sample | Room 1 | |
| WS | 379 | PF | | ↓ | |
| WS | 380 | FD | | Room 2 | |
| WS | 380 | PF | | ↓ | |
| WS | 381 | FD | | Room 6 | |
| WS | 381 | PF | | ↓ | |
| WS | 382 | FD | | Room 7 | |
| WS | 382 | PF | | ↓ | |
| WS | 383 | FD | | Room 8 | |
| WS | 383 | PF | | ↓ | |
| WS | 384 | FD | | S. Boys Restroom | |
| WS | 384 | PF | | ↓ | |
| WS | 385 | FD | | S. walkway by Restrooms | |
| WS | 385 | PF | | ↓ | |
| WS | 386 | FD | | S. Girls Restroom | |
| WS | 386 | PF | | ↓ | |
| WS | 387 | FD | | Room 9 | |
| WS | 387 | PF | | ↓ | |
| WS | 388 | FD | | Room 11 - Computer Lab | |
| WS | 388 | PF | | ↓ | |
| WS | 389 | FD | | Room 12 | |
| WS | 389 | PF | | ↓ | |

| | | | | | |
|---|---|---|---|---|---|
| Released By (Name): | S Schulte | Released By (Signature): | | Date: | Time: |
| Received By (Name): | S. Hollister | Received By (Signature): | | Date: | Time: |
| Laboratory Performing Analysis: | Forensic | | | | |

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Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, CA 90017 • (213) 353-1240 • Fax (213) 353-1244

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

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# BULK SAMPLE ANALYSIS REQUEST FORM (v2015.12.09)

| | | | |
|---|---|---|---|
| Project Name: | Woodstock Charter - Nea CLC | | |
| Project Address: | 1900 3rd St, Alameda, CA | | |
| ACC Project Number: | 3007-119.00 | | |
| Collected By: | B. Schulte | Sample Date: | 12/1/17 |
| Notes/ Comments: | Lead in Drinking water | | |

**Analysis Requested**

- ☐ PLM: Standard
- ☐ PLM: Point Count (400)
- ☐ PLM: Point Count (1000)
- ☐ TEM: Qualative
- ☐ TEM: Quantitive
- ☒ Lead
- ☐ PCB's: (Arochlors Only)
- ☐ PCB's: (Arochlors & Congeners)
- ☐ Fungi: Direct Exam
- ☐ Bacteria
- ☐ Particulate
- ☐ Other

| Material Code | HM Number | Sample Number | Material Description | Sample Location | Size |
|---|---|---|---|---|---|
| WS | 390 | FD | Drinking water Sample | NW walkway | |
| WS | 390 | PF | | ↓ | |
| WS | 391 | FD | | Room 15 | |
| WS | 391 | PF | | ↓ | |
| WS | 392 | FD | | Room 16 | |
| WS | 392 | PF | | ↓ | |
| WS | 393 | FD | | Room 20 | |
| WS | 393 | PF | | ↓ | |
| WS | 394 | FD | | Room 21 | |
| WS | 394 | PF | | ↓ | |
| WS | 395 | FD | | Room 22 | |
| WS | 395 | PF | | ↓ | |
| WS | 396 | FD | | Playground N. by Room 22 | |
| WS | 396 | PF | | ↓ | |
| WS | 397 | FD | | Playground Southwest | |
| WS | 397 | PF | | ↓ | |
| WS | 398 | FD | | Health Center Sink (Portable 27) | |
| WS | 398 | PF | | ↓ | |
| ~~399~~ | | | | | |
| | | | | | |
| ~~400~~ | | | | | |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Released By (Name): | B. Schulte | Released By (Signature): | | Date: | Time: |
| Received By (Name): | S. Hollister Forensic | Received By (Signature): | | Date: | Time: |
| Laboratory Performing Analysis: | | | | | |

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