Pasadena Unified School District

# Washington Elementary

## 2017 Drinking Water Lead Testing Records

This packet brings together the available original laboratory reports and supporting sampling records for this site. See the dated source documents for sample locations, results, reporting limits, and any follow-up testing.

Some reports cover more than one school or program. The complete reports are included; use each sample identifier and site name to distinguish results.

### Documents included

Washington Elementary and CC 9-14-17 Lead Results | pages 2-10

Lead-Testing-PWP-Washington Elementary | pages 11-17

Sampling location photographs | pages 18-19

Select a document above to jump to it. Original reports are reproduced in full; Word and Excel supporting records have been converted to PDF.

Historical records only. These documents describe the samples and conditions recorded in 2017, not every outlet or current water conditions. Separate 2023 preschool testing is not included.

WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

**Work Orders:** 7I14070

**Project:** Lead Testing

**Attn:** Mercedes Acevedo

**Client:** Pasadena Water & Power
245 West Mountain
Pasadena, CA 91101

**Report Date:** 10/05/2017
**Received Date:** 9/14/2017
**Turnaround Time:** Normal
**Phones:** (626) 744-7910
**Fax:** -
**P.O. #:** 1180024-00
**Billing Code:**

**DoD-ELAP #L2457 ● ELAP-CA #1132 ● EPA-UCMR #CA00211 ● Guam-EPA #17-008R ● HW-DOH # ● ISO 17025 #L2457.01 ● LACSD #10143 ● NELAP-OR #4047 ● NJ-DEP #CA015 ● SCAQMD #93LA1006**

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Mercedes Acevedo,

Enclosed are the results of analyses for samples received 9/14/17 with the Chain-of-Custody document. The samples were received in good condition, at 22.3 °C. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**

Chris Samatmanakit
Project Manager



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Pasadena Water & Power
245 West Mountain
Pasadena, CA 91101

**Project Number:** Lead Testing

**Project Manager:** Mercedes Acevedo

**Reported:**
10/05/2017 11:56

## Sample Summary

| Sample Name | Sampled By | Lab ID | Matrix | Sampled | Qualifiers |
|---|---|---|---|---|---|
| 1910124-ABE-A / WAES-1-A, Alias: 1709319, RegID: 1910124-ABE-A | Myriam Cardenas | 7I14070-01 | Water | 09/14/17 06:14 | |
| 1910124-ABE-AX / WAES-1-B, Alias: 1709320 | Myriam Cardenas | 7I14070-02 | Water | 09/14/17 06:14 | |
| 1910124-ABE-B / WAES-2-A, Alias: 1709321, RegID: 1910124-ABE-B | Myriam Cardenas | 7I14070-03 | Water | 09/14/17 06:10 | |
| 1910124-ABE-BX / WAES-2-B, Alias: 1709322 | Myriam Cardenas | 7I14070-04 | Water | 09/14/17 06:10 | |
| 1910124-ABE-C / WAES-3-A, Alias: 1709323, RegID: 1910124-ABE-C | Myriam Cardenas | 7I14070-05 | Water | 09/14/17 06:20 | |
| 1910124-ABE-CX / WAES-3-B, Alias: 1709324 | Myriam Cardenas | 7I14070-06 | Water | 09/14/17 06:20 | |
| 1910124-ABE-D / WAES-4-A, Alias: 1709325, RegID: 1910124-ABE-D | Myriam Cardenas | 7I14070-07 | Water | 09/14/17 06:27 | |
| 1910124-ABE-DX / WAES-4-B, Alias: 1709326 | Myriam Cardenas | 7I14070-08 | Water | 09/14/17 06:27 | |
| 1910124-ABE-E / WAES-5-A, Alias: 1709327, RegID: 1910124-ABE-E | Myriam Cardenas | 7I14070-09 | Water | 09/14/17 06:35 | |
| 1910124-ABE-EX / WAES-5-B, Alias: 1709328 | Myriam Cardenas | 7I14070-10 | Water | 09/14/17 06:35 | |
| 1910124-ABE-FX / WAES-6-A, Alias: 1709329 | Myriam Cardenas | 7I14070-11 | Water | 09/14/17 07:01 | |
| 1910124-ABE-FX / WAES-6-B, Alias: 1709330 | Myriam Cardenas | 7I14070-12 | Water | 09/14/17 07:01 | |
| 1910124-ABE-GX / WAES-7-A, Alias: 1709331 | Myriam Cardenas | 7I14070-13 | Water | 09/14/17 06:50 | |
| 1910124-ABE-GX / WAES-7-B, Alias: 1709332 | Myriam Cardenas | 7I14070-14 | Water | 09/14/17 06:50 | |
| 1910124-ABE-HX / WAES-8-A, Alias: 1709333 | Myriam Cardenas | 7I14070-15 | Water | 09/14/17 06:56 | |
| 1910124-ABE-HX / WAES-8-B, Alias: 1709334 | Myriam Cardenas | 7I14070-16 | Water | 09/14/17 06:56 | |
| 1910124-ABE-IX / WAES-9-A, Alias: 1709335 | Myriam Cardenas | 7I14070-17 | Water | 09/14/17 06:47 | |
| 1910124-ABE-IX / WAES-9-B, Alias: 1709336 | Myriam Cardenas | 7I14070-18 | Water | 09/14/17 06:47 | |



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## Sample Results

Sample: 1910124-ABE-A / WAES-1-A, Alias: 1709319, RegID: 1910124-ABE-A — Sampled: 09/14/17 6:14 by Myriam Cardenas

7I14070-01 (Water) Washington Elem - Site#1 - 1st Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 | | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 12:56 | |

Sample: 1910124-ABE-AX / WAES-1-B, Alias: 1709320 — Sampled: 09/14/17 6:14 by Myriam Cardenas

7I14070-02 (Water) Washington Elem - Site#1 - 2nd Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 | | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 12:58 | |

Sample: 1910124-ABE-B / WAES-2-A, Alias: 1709321, RegID: 1910124-ABE-B — Sampled: 09/14/17 6:10 by Myriam Cardenas

7I14070-03 (Water) Washington Elem - Site#2 - 1st Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 | | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:01 | |

Sample: 1910124-ABE-BX / WAES-2-B, Alias: 1709322 — Sampled: 09/14/17 6:10 by Myriam Cardenas

7I14070-04 (Water) Washington Elem - Site#2 - 2nd Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 | | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:03 | |

Sample: 1910124-ABE-C / WAES-3-A, Alias: 1709323, RegID: 1910124-ABE-C — Sampled: 09/14/17 6:20 by Myriam Cardenas

7I14070-05 (Water) Washington Elem - Site#3 - 1st Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 | | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:05 | |

Sample: 1910124-ABE-CX / WAES-3-B, Alias: 1709324 — Sampled: 09/14/17 6:20 by Myriam Cardenas

7I14070-06 (Water) Washington Elem - Site#3 - 2nd Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 | | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:07 | |



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## Sample Results

(Continued)

Sample: 1910124-ABE-D / WAES-4-A, Alias: 1709325, RegID: 1910124-ABE-D — Sampled: 09/14/17 6:27 by Myriam Cardenas

7I14070-07 (Water) Washington Elem - Site#4 - 1st Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 **Prepared:** 09/18/17 08:11 **Analyst:** jck | | | | | | |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:09 | |

Sample: 1910124-ABE-DX / WAES-4-B, Alias: 1709326 — Sampled: 09/14/17 6:27 by Myriam Cardenas

7I14070-08 (Water) Washington Elem - Site#4 - 2nd Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 **Prepared:** 09/18/17 08:11 **Analyst:** jck | | | | | | |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:12 | |

Sample: 1910124-ABE-E / WAES-5-A, Alias: 1709327, RegID: 1910124-ABE-E — Sampled: 09/14/17 6:35 by Myriam Cardenas

7I14070-09 (Water) Washington Elem - Site#5 - 1st Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 **Prepared:** 09/18/17 08:11 **Analyst:** jck | | | | | | |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:14 | |

Sample: 1910124-ABE-EX / WAES-5-B, Alias: 1709328 — Sampled: 09/14/17 6:35 by Myriam Cardenas

7I14070-10 (Water) Washington Elem - Site#5 - 2nd Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 **Prepared:** 09/18/17 08:11 **Analyst:** jck | | | | | | |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:16 | |

Sample: 1910124-ABE-FX / WAES-6-A, Alias: 1709329 — Sampled: 09/14/17 7:01 by Myriam Cardenas

7I14070-11 (Water) Washington CC - Site#1 - 1st Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.7 **Batch ID:** W7I1687 **Prepared:** 09/29/17 08:13 **Analyst:** JCK | | | | | | |
| **Iron, Total** | **120** | 10 | ug/l | 1 | 09/29/17 17:48 | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 **Prepared:** 09/18/17 08:11 **Analyst:** jck | | | | | | |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:23 | |

Sample: 1910124-ABE-FX / WAES-6-B, Alias: 1709330 — Sampled: 09/14/17 7:01 by Myriam Cardenas

7I14070-12 (Water) Washington CC - Site#1 - 2nd Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.7 **Batch ID:** W7I1687 **Prepared:** 09/29/17 08:13 **Analyst:** JCK | | | | | | |
| **Iron, Total** | **120** | 10 | ug/l | 1 | 09/29/17 17:50 | |
| **Method:** EPA 200.8 **Batch ID:** W7I0926 **Prepared:** 09/18/17 08:11 **Analyst:** jck | | | | | | |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:25 | |



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**Project Manager:** Mercedes Acevedo

**Reported:**
10/05/2017 11:56

## Sample Results

(Continued)

Sample: 1910124-ABE-GX / WAES-7-A, Alias: 1709331 — Sampled: 09/14/17 6:50 by Myriam Cardenas

7I14070-13 (Water) Washington CC - Site#2 - 1st Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.7 | **Batch ID:** W7I1000 | **Prepared:** 09/20/17 08:00 | | | | **Analyst:** JCK |
| Iron, Total | ND | 10 | ug/l | 1 | 09/20/17 15:43 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I0926 | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| **Copper, Total** | **2.5** | 0.50 | ug/l | 1 | 09/18/17 13:27 | |
| **Lead, Total** | **8.3** | 5.0 | ug/l | 1 | 09/18/17 13:27 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I1241 | **Prepared:** 09/21/17 13:38 | | | | **Analyst:** rrl |
| **Nickel, Total** | **43** | 0.80 | ug/l | 1 | 09/27/17 12:14 | |
| **Zinc, Total** | **710** | 5.0 | ug/l | 1 | 09/27/17 12:14 | |

Sample: 1910124-ABE-GX / WAES-7-B, Alias: 1709332 — Sampled: 09/14/17 6:50 by Myriam Cardenas

7I14070-14 (Water) Washington CC - Site#2 - 2nd Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.7 | **Batch ID:** W7I1000 | **Prepared:** 09/20/17 08:00 | | | | **Analyst:** JCK |
| **Iron, Total** | **10** | 10 | ug/l | 1 | 09/20/17 15:46 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I0926 | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| **Copper, Total** | **1.5** | 0.50 | ug/l | 1 | 09/18/17 13:29 | |
| **Lead, Total** | **7.6** | 5.0 | ug/l | 1 | 09/18/17 13:29 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I1241 | **Prepared:** 09/21/17 13:38 | | | | **Analyst:** rrl |
| **Nickel, Total** | **5.4** | 0.80 | ug/l | 1 | 09/27/17 12:16 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I1654 | **Prepared:** 09/28/17 12:47 | | | | **Analyst:** jck |
| **Zinc, Total** | **1100** | 5.0 | ug/l | 1 | 09/28/17 16:11 | |

Sample: 1910124-ABE-HX / WAES-8-A, Alias: 1709333 — Sampled: 09/14/17 6:56 by Myriam Cardenas

7I14070-15 (Water) Washington CC - Site#3 - 1st Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.7 | **Batch ID:** W7I1687 | **Prepared:** 09/29/17 08:13 | | | | **Analyst:** JCK |
| **Iron, Total** | **640** | 10 | ug/l | 1 | 09/29/17 17:53 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I0926 | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:31 | |

Sample: 1910124-ABE-HX / WAES-8-B, Alias: 1709334 — Sampled: 09/14/17 6:56 by Myriam Cardenas

7I14070-16 (Water) Washington CC - Site#3 - 2nd Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.7 | **Batch ID:** W7I1687 | **Prepared:** 09/29/17 08:13 | | | | **Analyst:** JCK |
| **Iron, Total** | **290** | 10 | ug/l | 1 | 09/29/17 17:56 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I0926 | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:34 | |



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10/05/2017 11:56

## Sample Results

(Continued)

Sample: 1910124-ABE-IX / WAES-9-A, Alias: 1709335 — Sampled: 09/14/17 6:47 by Myriam Cardenas

7I14070-17 (Water) Washington CC - Site#4 - 1st Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.7 | **Batch ID:** W7I1000 | **Prepared:** 09/20/17 08:00 | | | | **Analyst:** JCK |
| **Iron, Total** | **25** | 10 | ug/l | 1 | 09/20/17 15:49 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I0926 | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| **Copper, Total** | **370** | 0.50 | ug/l | 1 | 09/18/17 13:36 | |
| **Lead, Total** | **5.4** | 5.0 | ug/l | 1 | 09/18/17 13:36 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I1241 | **Prepared:** 09/21/17 13:38 | | | | **Analyst:** rrl |
| **Nickel, Total** | **73** | 0.80 | ug/l | 1 | 09/27/17 12:19 | |
| **Zinc, Total** | **320** | 5.0 | ug/l | 1 | 09/27/17 12:19 | |

Sample: 1910124-ABE-IX / WAES-9-B, Alias: 1709336 — Sampled: 09/14/17 6:47 by Myriam Cardenas

7I14070-18 (Water) Washington CC - Site#4 - 2nd Draw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Metals by EPA 200 Series Methods** | | | | | | |
| **Method:** EPA 200.7 | **Batch ID:** W7I1000 | **Prepared:** 09/20/17 08:00 | | | | **Analyst:** JCK |
| **Iron, Total** | **22** | 10 | ug/l | 1 | 09/20/17 15:52 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I0926 | **Prepared:** 09/18/17 08:11 | | | | **Analyst:** jck |
| **Copper, Total** | **330** | 0.50 | ug/l | 1 | 09/18/17 13:38 | |
| Lead, Total | ND | 5.0 | ug/l | 1 | 09/18/17 13:38 | |
| **Method:** EPA 200.8 | **Batch ID:** W7I1241 | **Prepared:** 09/21/17 13:38 | | | | **Analyst:** rrl |
| **Nickel, Total** | **10** | 0.80 | ug/l | 1 | 09/27/17 12:21 | |
| **Zinc, Total** | **190** | 5.0 | ug/l | 1 | 09/27/17 12:21 | |



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## Quality Control Results

Metals by EPA 200 Series Methods

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: W7I0926 - EPA 200.8** | | | | | | | | | | |
| **Blank (W7I0926-BLK1)** | | | | **Prepared & Analyzed: 09/18/17** | | | | | | |
| Copper, Total | ND | 0.50 | ug/l | | | | | | | |
| Lead, Total | ND | 5.0 | ug/l | | | | | | | |
| **LCS (W7I0926-BS1)** | | | | **Prepared & Analyzed: 09/18/17** | | | | | | |
| Copper, Total | 48.9 | 0.50 | ug/l | 50.0 | | 98 | 85-115 | | | |
| Lead, Total | 49.0 | 5.0 | ug/l | 50.0 | | 98 | 85-115 | | | |
| **Matrix Spike (W7I0926-MS1)** | **Source: 7I14070-01** | | | **Prepared & Analyzed: 09/18/17** | | | | | | |
| Copper, Total | 429 | 0.50 | ug/l | 50.0 | 391 | 76 | 70-130 | | | |
| Lead, Total | 47.4 | 5.0 | ug/l | 50.0 | 0.538 | 94 | 70-130 | | | |
| **Matrix Spike (W7I0926-MS2)** | **Source: 7I14070-02** | | | **Prepared & Analyzed: 09/18/17** | | | | | | |
| Copper, Total | 286 | 0.50 | ug/l | 50.0 | 237 | 97 | 70-130 | | | |
| Lead, Total | 46.8 | 5.0 | ug/l | 50.0 | 0.281 | 93 | 70-130 | | | |
| **Matrix Spike Dup (W7I0926-MSD1)** | **Source: 7I14070-01** | | | **Prepared & Analyzed: 09/18/17** | | | | | | |
| Copper, Total | 436 | 0.50 | ug/l | 50.0 | 391 | 90 | 70-130 | 2 | 30 | |
| Lead, Total | 47.1 | 5.0 | ug/l | 50.0 | 0.538 | 93 | 70-130 | 0.7 | 30 | |
| **Matrix Spike Dup (W7I0926-MSD2)** | **Source: 7I14070-02** | | | **Prepared & Analyzed: 09/18/17** | | | | | | |
| Copper, Total | 284 | 0.50 | ug/l | 50.0 | 237 | 94 | 70-130 | 0.6 | 30 | |
| Lead, Total | 46.6 | 5.0 | ug/l | 50.0 | 0.281 | 93 | 70-130 | 0.5 | 30 | |
| **Batch: W7I1000 - EPA 200.7** | | | | | | | | | | |
| **Blank (W7I1000-BLK1)** | | | | **Prepared & Analyzed: 09/20/17** | | | | | | |
| Iron, Total | ND | 10 | ug/l | | | | | | | |
| **LCS (W7I1000-BS1)** | | | | **Prepared & Analyzed: 09/20/17** | | | | | | |
| Iron, Total | 186 | 10 | ug/l | 200 | | 93 | 85-115 | | | |
| **Matrix Spike (W7I1000-MS1)** | **Source: 7I14070-13** | | | **Prepared & Analyzed: 09/20/17** | | | | | | |
| Iron, Total | 190 | 10 | ug/l | 200 | 2.00 | 94 | 70-130 | | | |
| **Matrix Spike (W7I1000-MS2)** | **Source: 7I14070-14** | | | **Prepared & Analyzed: 09/20/17** | | | | | | |
| Iron, Total | 197 | 10 | ug/l | 200 | 10.0 | 93 | 70-130 | | | |
| **Matrix Spike Dup (W7I1000-MSD1)** | **Source: 7I14070-13** | | | **Prepared & Analyzed: 09/20/17** | | | | | | |
| Iron, Total | 192 | 10 | ug/l | 200 | 2.00 | 95 | 70-130 | 1 | 30 | |
| **Matrix Spike Dup (W7I1000-MSD2)** | **Source: 7I14070-14** | | | **Prepared & Analyzed: 09/20/17** | | | | | | |
| Iron, Total | 198 | 10 | ug/l | 200 | 10.0 | 94 | 70-130 | 0.5 | 30 | |
| **Batch: W7I1241 - EPA 200.8** | | | | | | | | | | |
| **Blank (W7I1241-BLK1)** | | | | **Prepared: 09/21/17 Analyzed: 09/27/17** | | | | | | |
| Nickel, Total | ND | 0.80 | ug/l | | | | | | | |
| Zinc, Total | ND | 5.0 | ug/l | | | | | | | |
| **LCS (W7I1241-BS1)** | | | | **Prepared: 09/21/17 Analyzed: 09/27/17** | | | | | | |
| Nickel, Total | 48.9 | 0.80 | ug/l | 50.0 | | 98 | 85-115 | | | |



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Pasadena Water & Power
245 West Mountain
Pasadena, CA 91101

**Project Number:** Lead Testing

**Project Manager:** Mercedes Acevedo

**Reported:**
10/05/2017 11:56

## Quality Control Results (Continued)

Metals by EPA 200 Series Methods (Continued)

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: W7I1241 - EPA 200.8 (Continued)** | | | | | | | | | | |
| **LCS (W7I1241-BS1)** | | | | **Prepared: 09/21/17 Analyzed: 09/27/17** | | | | | | |
| Zinc, Total | 50.4 | 5.0 | ug/l | 50.0 | | 101 | 85-115 | | | |
| **Matrix Spike (W7I1241-MS1)** | **Source: 7I08049-02** | | | **Prepared: 09/21/17 Analyzed: 09/27/17** | | | | | | |
| Nickel, Total | 70.2 | 0.80 | ug/l | 50.0 | 24.6 | 91 | 70-130 | | | |
| Zinc, Total | 383 | 5.0 | ug/l | 50.0 | 335 | 95 | 70-130 | | | |
| **Matrix Spike Dup (W7I1241-MSD1)** | **Source: 7I08049-02** | | | **Prepared: 09/21/17 Analyzed: 09/27/17** | | | | | | |
| Nickel, Total | 71.7 | 0.80 | ug/l | 50.0 | 24.6 | 94 | 70-130 | 2 | 30 | |
| Zinc, Total | 393 | 5.0 | ug/l | 50.0 | 335 | 115 | 70-130 | 2 | 30 | |
| **Batch: W7I1654 - EPA 200.8** | | | | | | | | | | |
| **Blank (W7I1654-BLK1)** | | | | **Prepared & Analyzed: 09/28/17** | | | | | | |
| Zinc, Total | ND | 5.0 | ug/l | | | | | | | |
| **LCS (W7I1654-BS1)** | | | | **Prepared & Analyzed: 09/28/17** | | | | | | |
| Zinc, Total | 46.2 | 5.0 | ug/l | 50.0 | | 92 | 85-115 | | | |
| **Matrix Spike (W7I1654-MS1)** | **Source: 7I21041-01** | | | **Prepared & Analyzed: 09/28/17** | | | | | | |
| Zinc, Total | 49.6 | 5.0 | ug/l | 50.0 | 1.68 | 96 | 70-130 | | | |
| **Matrix Spike (W7I1654-MS2)** | **Source: 7I21041-02** | | | **Prepared & Analyzed: 09/28/17** | | | | | | |
| Zinc, Total | 49.0 | 5.0 | ug/l | 50.0 | 1.70 | 95 | 70-130 | | | |
| **Matrix Spike Dup (W7I1654-MSD1)** | **Source: 7I21041-01** | | | **Prepared & Analyzed: 09/28/17** | | | | | | |
| Zinc, Total | 48.3 | 5.0 | ug/l | 50.0 | 1.68 | 93 | 70-130 | 3 | 30 | |
| **Matrix Spike Dup (W7I1654-MSD2)** | **Source: 7I21041-02** | | | **Prepared & Analyzed: 09/28/17** | | | | | | |
| Zinc, Total | 49.7 | 5.0 | ug/l | 50.0 | 1.70 | 96 | 70-130 | 1 | 30 | |
| **Batch: W7I1687 - EPA 200.7** | | | | | | | | | | |
| **Blank (W7I1687-BLK1)** | | | | **Prepared & Analyzed: 09/29/17** | | | | | | |
| Iron, Total | ND | 10 | ug/l | | | | | | | |
| **LCS (W7I1687-BS1)** | | | | **Prepared & Analyzed: 09/29/17** | | | | | | |
| Iron, Total | 198 | 10 | ug/l | 200 | | 99 | 85-115 | | | |
| **Matrix Spike (W7I1687-MS1)** | **Source: 7I14070-11** | | | **Prepared & Analyzed: 09/29/17** | | | | | | |
| Iron, Total | 310 | 10 | ug/l | 200 | 116 | 97 | 70-130 | | | |
| **Matrix Spike (W7I1687-MS2)** | **Source: 7I14070-12** | | | **Prepared & Analyzed: 09/29/17** | | | | | | |
| Iron, Total | 318 | 10 | ug/l | 200 | 116 | 101 | 70-130 | | | |
| **Matrix Spike Dup (W7I1687-MSD1)** | **Source: 7I14070-11** | | | **Prepared & Analyzed: 09/29/17** | | | | | | |
| Iron, Total | 319 | 10 | ug/l | 200 | 116 | 101 | 70-130 | 3 | 30 | |
| **Matrix Spike Dup (W7I1687-MSD2)** | **Source: 7I14070-12** | | | **Prepared & Analyzed: 09/29/17** | | | | | | |
| Iron, Total | 317 | 10 | ug/l | 200 | 116 | 100 | 70-130 | 0.3 | 30 | |



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**Project Number:** Lead Testing

**Project Manager:** Mercedes Acevedo

**Reported:**
10/05/2017 11:56

## Notes and Definitions

| Item | Definition |
|---|---|
| ND | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL. |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |
| MDL | Method Detection Limit |
| MRL | The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR) |
| MDA | Minimum Detectable Activity |
| NR | Not Reportable |
| TIC | Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown. |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.



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# Pasadena Water & Power and Washington Elementary School Lead Sampling Plan

Water System Name: Pasadena Water & Power

Water System Number:1910124

School Name:___Longfellow Elementary School_____

School Address:__1520 North Raymond Ave., Pasadena, CA 91103-1819_____

Meeting Date:_____

PWP Representative:

Myriam Cardenas 8/31/17

Myriam Cardenas
Principal Chemist

Pasadena Unified School District Representative:

_____
Signature & Date

_____
Print Name

# Sample Recordkeeping Form

**Sample No. 1**

Name of Building: A-Building/1st Floor

Location Description: Teacher's Lounge

Type of Outlet: Sink Faucet

Sample I.D.: 1910124-ABE-A

*Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.*

(circle sample type) (Initial) 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

(circle collector type) Water System Operator (Water System Representative)

Contractor

Lead Concentration (ppb): _____

NOTES: Two initial samples were collected WAES-1-A and WAES-1-B on the same day. A was collected first and immediately after, B was collected. No water flushed between samples. Sample ID 1910124-ABE-A corresponds to WAES-1-A. Sample ID 1910124-ABE-AX corresponds to WAES-1-B.



# Sample Recordkeeping Form

**Sample No. 2**

Name of Building: A-Building/1st Floor

Location Description: Kitchen

Type of Outlet: Sink Faucet

Sample I.D.: 1910124-ABE-B

*Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.*

(circle sample type) (Initial) 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

(circle collector type) Water System Operator (Water System Representative)

Contractor

Lead Concentration (ppb): _____

NOTES:

Two initial samples were collected
WAES-2-A and WAES-2-B on the same day.
A was collected first and immediately after, B was collected. No water flushed between samples.
Sample ID 1910124-ABE-B corresponds to WAES-2-A.
Sample ID 1910124-ABE-BX corresponds to WAES-2-B.



# Sample Recordkeeping Form

**Sample No. 3**

Name of Building: B-Building/1st Floor

Location Description: Hallway/ Between Rms 108 & 110

Type of Outlet: Drinking Fountain

Sample I.D.: 1910124-ABE-C

*Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.*

(circle sample type) (Initial) 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

(circle collector type) Water System Operator (Water System Representative)

Contractor

Lead Concentration (ppb): _____

NOTES:

Two initial samples were collected
WAES-3-A and WAES-3-B on the same day.
A was collected first and immediately after, B was collected. No water flushed between samples.
Sample ID 1910124-ABE-C corresponds to WAES-3-A.
Sample ID 1910124-ABE-CX corresponds to WAES-3-B.



# Sample Recordkeeping Form

**Sample No. 4**

Name of Building: E-Building

Location Description: Outside/ Next to Plumbing Rm E04

Type of Outlet: Drinking Fountain/ Upper

Sample I.D.: 1910124-ABE-D

*Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.*

(circle sample type) Initial 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

(circle collector type) Water System Operator Water System Representative

Contractor

Lead Concentration (ppb): _____

NOTES:

Two initial samples were collected
WAES-4-A and WAES-4-B on the same day.
A was collected first and immediately after, B was collected. No water flushed between samples.
Sample ID 1910124-ABE-D corresponds to WAES-4-A.
Sample ID 1910124-ABE-DX corresponds to WAES-4-B.



# Sample Recordkeeping Form

**Sample No. 5**

Name of Building: B-Building

Location Description: Playground/Outside of Rm B100

Type of Outlet: Outdoor Fountain/Left Bubbler

Sample I.D.: 1910124-ABE-E

*Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.*

(circle sample type) (Initial) 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

(circle collector type) Water System Operator (Water System Representative)

Contractor

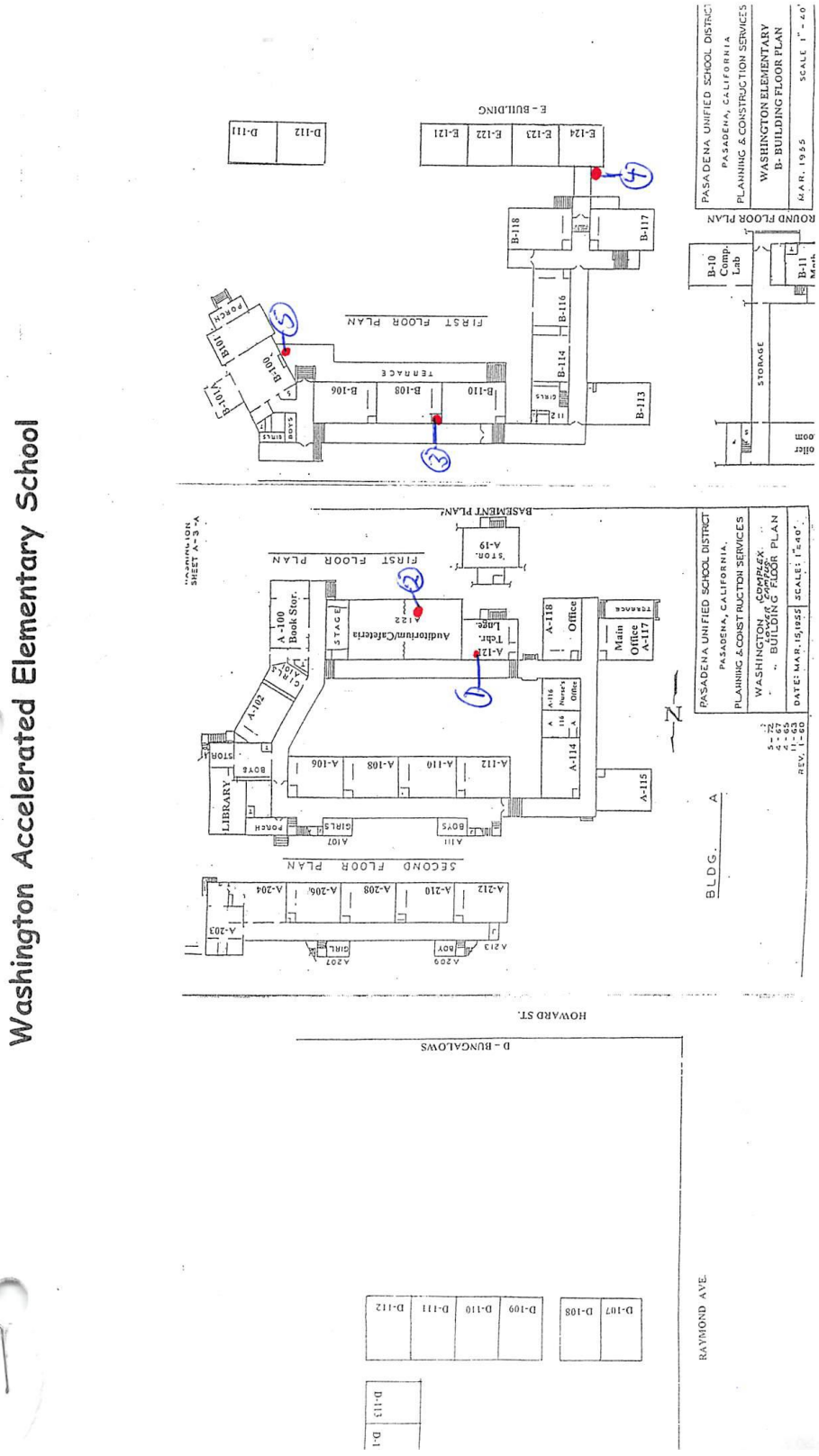
Lead Concentration (ppb): _____

NOTES:

Two initial samples were collected
WAES-5-A and WAES-5-B on the same day.
A was collected first and immediately after, B was collected. No water flushed between samples.
Sample ID 1910124-ABE-E corresponds to WAES-5-A.
Sample ID 1910124-ABE-EX corresponds to WAES-5-B.



# Sample Location Map



SCHOOL NAME: WASH ELEM

**SAMPLE #1**




**SAMPLE#2**




**SAMPLE# 3**



**SAMPLE# 4**




**SAMPLE# 5**

