

**Seattle Public Schools
Drinking Water Quality Program**

**Results of Water Quality Testing
for
Rainier view elementary School**

Updated September 3, 2019

General Information:

Plumbing piping materials: mainly copper

Remediation plan:

This remediation plan is based on a Water Quality policy approved by the School Board. The policy includes standards for the presence of lead, cadmium, copper, iron and other substances in drinking water.

Sinks (S in the report) are not considered drinking water sources. We recognize that there is the potential for students to want to drink from classroom hand-washing sinks, so we test all of those. Where a student's choice to drink from a sink could be a problem, we post a reminder sign, as we do at all restroom sinks.

Status:

Policy Criteria:

The school has one source that doesn't meet the policy criteria. Signs will be posted at kitchen sink (#01).

Follow-up monitoring: Will be performed in school year 2021-2022.

Service: The school will be flushed after any breaks longer than five days.

Water Quality Testing Results:

Legend

| Symbol | Definition |
|------------|--|
| SE | service entry (main) |
| B | bubbler |
| S | sink (faucet) |
| B/S | sink/bubbler combination |
| S/B | sink/bubbler combination |
| ppb | parts per billion |
| ppm | parts per million |
| NA | not applicable |
| None | no action required |
| Unk | unknown status or action |
| Sample | sample needs to be taken |
| Re-test | fixture needs to be resampled |
| Conf | resample to confirm measurement |
| No flush | not flushed before sampling |
| Sink | sampled faucet of S/B combo |
| Used | recently used; no 1st draw sample possible |
| PS | post sign |
| Disable(d) | fixture disabled in response to water quality testing |
| BDSS | Bubbler disabled, sign on sink |
| IF | install filter |
| RB | replace bubbler |
| RB/IF | replace bubbler and/or install filter |
| RF | replace faucet |
| RF/IF | replace faucet and/or install filter |
| BW | disable fixture and provide bottled water until remediated |
| Leaks | leaking fixture |
| NW | not working properly (sample S when B of S/B NW) |
| OS | out of service - disabled until fixed |
| RS | return to service - now passes testing |
| Rem | Removed from system - no longer exists |

Table 1. Summary of Results

| FIXTURE INFORMATION | | | LEAD | | CADMIUM | | COPPER | | IRON | | OK? |
|---------------------|------|----------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|---------------|
| Fixture ID | Type | Location | Pass/Fail | Status | Pass/Fail | Status | Pass/Fail | Status | Pass/Fail | Status | Yes/No/Status |
| 01 | S | kitchen | F | PS | P | None | P | None | | | PS |
| 02 | S | Kitchen, left | P | None | P | None | P | None | P | None | Yes |
| 03 | S | Kitchen, right | P | None | P | None | P | None | | | Yes |
| 04 | S | teacher's lounge 129 | P | None | P | None | P | None | | | Yes |
| 05 | S | teacher's workroom 130A | P | None | P | None | P | None | | | Yes |
| 06 | S | office | P | None | P | None | P | None | P | None | Yes |
| 07 | S | nurse 141 | P | None | P | None | P | None | | | Yes |
| 08 | S/B | kindergarten 138 | P | None | P | None | P | None | | | Yes |
| 09 | S/B | classroom 131 | P | None | P | None | P | None | P | None | Yes |
| 10 | S/B | kindergarten 133 | P | None | P | None | P | None | P | None | Yes |
| 11 | S/B | classroom 132 | P | None | P | None | P | None | P | None | Yes |
| 12 | B | hallway by boy's restroom | P | None | P | None | P | None | | | Yes |
| 13 | B | hallway by girl's restroom | P | None | P | None | P | None | P | None | Yes |
| 14 | S/B | classroom 145 | P | None | P | None | P | None | P | None | Yes |
| 15 | S/B | classroom 146 | P | None | P | None | P | None | | | Yes |
| 16 | S/B | classroom 152 | P | None | P | None | P | None | | | Yes |
| 17 | S/B | classroom 147 | P | None | P | None | P | None | P | None | Yes |
| 18 | S/B | classroom 151 | P | None | P | None | P | None | P | None | Yes |
| 19 | S/B | classroom 148 | P | None | P | None | P | None | | | Yes |
| 20 | S/B | classroom 150 | P | None | P | None | P | None | P | None | Yes |
| 21 | S/B | classroom 149 | P | None | P | None | P | None | | | Yes |

Table 2. Lead Test Results

| FIXTURE INFORMATION | | | 8/12/2011 | | | 8/30/2011 | | | 9/7/2011 | | | 2/19/2012 | | | 2/29/2012 | | |
|---------------------|------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Fixture ID | Type | Location | 1st Draw | Flush 30s | Pass/Fail | 1st Draw | Flush 30s | Pass/Fail | 1st Draw | Flush 30s | Pass/Fail | 1st Draw | Flush 30s | Pass/Fail | 1st Draw | Flush 30s | Pass/Fail |
| 01 | S | kitchen | 13 | 3 | | 4 | 5 | P | | | | | | | | | |
| 02 | S | Kitchen, left | 74 | 9 | | 73 | 10 | | 36 | 5 | | 6 | <1 | P | 6 | <1 | P |
| 03 | S | Kitchen, right | 42 | 3 | | 61 | 4 | | 19 | 3 | | 12 | 7 | | 12 | 7 | |
| 04 | S | teacher's lounge 129 | 4 | 2 | P | | | | | | | | | | | | |
| 05 | S | teacher's workroom 130A | 21 | 1 | | 28 | 5 | | | | | 20 | <1 | | 20 | <1 | |
| 06 | S | office | 47 | 6 | | 14 | 2 | | 20 | 8 | | 19 | 1 | | 19 | 1 | |
| 07 | S | nurse 141 | <1 | 14 | | 3 | <1 | P | | | | | | | | | |
| 08 | S/B | kindergarten 138 | 15 | 2 | | <1 | <1 | P | | | | | | | | | |
| 09 | S/B | classroom 131 | 27 | 2 | | <1 | <1 | P | | | | | | | | | |
| 10 | S/B | kindergarten 133 | 8 | 4 | P | | | | | | | | | | | | |
| 11 | S/B | classroom 132 | 72 | 12 | | 22 | 4 | | 22 | 4 | | 34 | 6 | | 34 | 6 | |
| 12 | B | hallway by boy's restroom | 20 | 2 | | 7 | 1 | P | | | | | | | | | |
| 13 | B | hallway by girl's restroom | 67 | 63 | | 15 | 10 | | 33 | 16 | | <1 | <1 | P | <1 | <1 | P |
| 14 | S/B | classroom 145 | 34 | 5 | | 12 | 4 | | 10 | 3 | P | | | | | | |
| 15 | S/B | classroom 146 | 11 | 1 | | 10 | 2 | P | | | | | | | | | |
| 16 | S/B | classroom 152 | 17 | 4 | | 16 | 5 | | 11 | 2 | | 33 | 5 | | 33 | 5 | |
| 17 | S/B | classroom 147 | 12 | 2 | | 9 | 1 | P | | | | | | | | | |
| 18 | S/B | classroom 151 | 15 | 3 | | 14 | 3 | | 14 | 4 | | 31 | 4 | | 31 | 4 | |
| 19 | S/B | classroom 148 | 14 | 2 | | 11 | 3 | | 9 | 3 | P | | | | | | |
| 20 | S/B | classroom 150 | 13 | 2 | | 10 | 2 | P | | | | | | | | | |
| 21 | S/B | classroom 149 | 7 | 2 | P | | | | | | | | | | | | |

Table 2. Lead Test Results (continued)

| FIXTURE INFORMATION | | | 4/13/2012 | | | 8/12/2012 | | | 10/2/2012 | | | 4/13/2016 | | | 3/30/2019 | | | 8/21/2019 | | | Summary Status | |
|---------------------|------|----------------------------|-----------|-----------|------------|-----------|-----------|------------|-----------|-----------|------------|-----------|-----------|------------|-----------|-----------|------------|-----------|-----------|------------|----------------|--------|
| Fixture ID | Type | Location | 1st Draw | Flush 30s | Pass /Fail | 1st Draw | Flush 30s | Pass /Fail | 1st Draw | Flush 30s | Pass /Fail | 1st Draw | Flush 30s | Pass /Fail | 1st Draw | Flush 30s | Pass /Fail | 1st Draw | Flush 30s | Pass /Fail | Pass/Fail | Status |
| 01 | S | kitchen | 10 | 3 | P | | | | | | | 10 | 5 | P | 11 | <1 | | 20 | 5 | | F | PS |
| 02 | S | Kitchen, left | 5 | <1 | P | | | | | | | 3 | 1 | P | <1 | <1 | P | | | | P | None |
| 03 | S | Kitchen, right | 5 | <1 | P | | | | | | | 4 | 1 | P | 2 | <1 | P | | | | P | None |
| 04 | S | teacher's lounge 129 | <1 | <1 | P | | | | | | | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 05 | S | teacher's workroom 130A | 14 | 1 | | 53 | 4 | | 1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 06 | S | office | 18 | 7 | | 71 | 6 | | 19 | 3 | | 29 | 4 | | 15 | 1 | | 2 | 5 | P | P | None |
| 07 | S | nurse 141 | 3 | <1 | P | | | | | | | <1 | <1 | P | 1 | <1 | P | | | | P | None |
| 08 | S/B | kindergarten 138 | 7 | <1 | P | 27 | 6 | | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 09 | S/B | classroom 131 | 8 | <1 | P | 48 | 5 | | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 10 | S/B | kindergarten 133 | 1 | <1 | P | 9 | 9 | P | 1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 11 | S/B | classroom 132 | 26 | 6 | | 148 | 15 | | 1 | <1 | P | 1 | 3 | P | <1 | <1 | P | | | | P | None |
| 12 | B | hallway by boy's restroom | 10 | 2 | P | | | | | | | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 13 | B | hallway by girl's restroom | <1 | <1 | P | | | | | | | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 14 | S/B | classroom 145 | 12 | 2 | | 57 | 4 | | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 15 | S/B | classroom 146 | 11 | 1 | | 74 | 3 | | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 16 | S/B | classroom 152 | 21 | 6 | | 111 | 8 | | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 17 | S/B | classroom 147 | 9 | 2 | P | 47 | 7 | | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 18 | S/B | classroom 151 | 17 | 2 | | 31 | 14 | | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 19 | S/B | classroom 148 | 14 | 2 | | 58 | 6 | | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 20 | S/B | classroom 150 | 9 | 4 | P | 40 | 8 | | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |
| 21 | S/B | classroom 149 | 6 | 2 | P | 25 | 7 | | 2 | <1 | P | <1 | <1 | P | <1 | <1 | P | | | | P | None |

Table 3. Cadmium Test Results

| Test Results (Cadmium/Cd, ppb) | | | | | | | | | | | | | |
|--------------------------------|------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|--------|
| FIXTURE INFORMATION | | | 8/12/2011 | | | 4/13/2016 | | | 3/30/2019 | | | Summary Status | |
| Fixture ID | Type | Location | 1st Draw | Flush 30s | Pass/Fail | 1st Draw | Flush 30s | Pass/Fail | 1st Draw | Flush 30s | Pass/Fail | Pass/Fail | Status |
| 01 | S | kitchen | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 02 | S | Kitchen, left | 2 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 03 | S | Kitchen, right | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 04 | S | teacher's lounge 129 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 05 | S | teacher's workroom 130A | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 06 | S | office | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 07 | S | nurse 141 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 08 | S/B | kindergarten 138 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 09 | S/B | classroom 131 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 10 | S/B | kindergarten 133 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 11 | S/B | classroom 132 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 12 | B | hallway by boy's restroom | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 13 | B | hallway by girl's restroom | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 14 | S/B | classroom 145 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 15 | S/B | classroom 146 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 16 | S/B | classroom 152 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 17 | S/B | classroom 147 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 18 | S/B | classroom 151 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 19 | S/B | classroom 148 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 20 | S/B | classroom 150 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |
| 21 | S/B | classroom 149 | <1 | <1 | P | <1 | <1 | P | <1 | <1 | P | P | None |

Table 4. Copper Test Results

| Test Results (Copper/Cu, ppm) | | | | | | | | | | | | | |
|-------------------------------|------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|--------|
| FIXTURE INFORMATION | | | 8/12/2011 | | | 4/13/2016 | | | 3/30/2019 | | | Summary Status | |
| Fixture ID | Type | Location | 1st Draw | Flush 30s | Pass/Fail | 1st Draw | Flush 30s | Pass/Fail | 1st Draw | Flush 30s | Pass/Fail | Pass/Fail | Status |
| 01 | S | kitchen | 0.205 | 0.116 | P | 0.122 | 0.128 | P | 0.104 | 0.053 | P | P | None |
| 02 | S | Kitchen, left | 0.13 | 0.202 | P | 0.276 | 0.071 | P | 0.137 | 0.044 | P | P | None |
| 03 | S | Kitchen, right | 0.361 | 0.061 | P | 0.109 | 0.064 | P | 0.171 | 0.052 | P | P | None |
| 04 | S | teacher's lounge 129 | 0.189 | 0.142 | P | 0.344 | 0.074 | P | 0.292 | 0.073 | P | P | None |
| 05 | S | teacher's workroom 130A | 0.168 | 0.093 | P | 0.005 | <0.002 | P | 0.009 | <0.002 | P | P | None |
| 06 | S | office | 0.297 | 0.15 | P | 0.265 | 0.544 | P | 0.258 | 0.397 | P | P | None |
| 07 | S | nurse 141 | 0.108 | 0.32 | P | 0.004 | <0.002 | P | 0.005 | <0.002 | P | P | None |
| 08 | S/B | kindergarten 138 | 0.13 | 0.171 | P | 0.003 | <0.002 | P | 0.003 | <0.002 | P | P | None |
| 09 | S/B | classroom 131 | 0.174 | 0.105 | P | 0.006 | <0.002 | P | 0.004 | <0.002 | P | P | None |
| 10 | S/B | kindergarten 133 | 0.309 | 0.196 | P | 0.004 | <0.002 | P | 0.004 | 0.003 | P | P | None |
| 11 | S/B | classroom 132 | 0.296 | 0.309 | P | 0.007 | 0.022 | P | 0.005 | <0.002 | P | P | None |
| 12 | B | hallway by boy's restroom | 0.103 | 0.228 | P | 0.003 | <0.002 | P | 0.004 | <0.002 | P | P | None |
| 13 | B | hallway by girl's restroom | 0.3 | 0.393 | P | 0.003 | <0.002 | P | 0.086 | 0.003 | P | P | None |
| 14 | S/B | classroom 145 | 0.292 | 0.096 | P | 0.012 | <0.002 | P | 0.002 | <0.002 | P | P | None |
| 15 | S/B | classroom 146 | 0.196 | 0.115 | P | 0.008 | <0.002 | P | 0.003 | 0.002 | P | P | None |
| 16 | S/B | classroom 152 | 0.275 | 0.234 | P | 0.005 | <0.002 | P | 0.003 | <0.002 | P | P | None |
| 17 | S/B | classroom 147 | 0.308 | 0.129 | P | 0.007 | <0.002 | P | 0.003 | 0.003 | P | P | None |
| 18 | S/B | classroom 151 | 0.305 | 0.262 | P | 0.005 | <0.002 | P | 0.003 | <0.002 | P | P | None |
| 19 | S/B | classroom 148 | 0.383 | 0.208 | P | 0.007 | <0.002 | P | 0.003 | <0.002 | P | P | None |
| 20 | S/B | classroom 150 | 0.387 | 0.411 | P | 0.016 | <0.002 | P | 0.005 | 0.003 | P | P | None |
| 21 | S/B | classroom 149 | 0.42 | 0.298 | P | 0.006 | <0.002 | P | 0.004 | 0.003 | P | P | None |

Table 5. Iron Test Results

| Test Results (Iron/Fe, ppm) | | | | | | | | | | |
|-----------------------------|------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|--------|
| FIXTURE INFORMATION | | | 8/12/2011 | | 4/13/2016 | | 3/30/2019 | | Summary Status | |
| Fixture ID | Type | Location | Flush 2m | Pass/Fail | Flush 2m | Pass/Fail | Flush 2m | Pass/Fail | Pass/Fail | Status |
| 01 | S | kitchen | | | | | | | | |
| 02 | S | Kitchen, left | 0.079 | P | | | <0.05 | P | P | None |
| 03 | S | Kitchen, right | | | | | | | | |
| 04 | S | teacher's lounge 129 | | | | | | | | |
| 05 | S | teacher's workroom 130A | | | | | | | | |
| 06 | S | office | <0.05 | P | | | | | P | None |
| 07 | S | nurse 141 | | | | | | | | |
| 08 | S/B | kindergarten 138 | | | | | | | | |
| 09 | S/B | classroom 131 | | | <0.05 | P | | | P | None |
| 10 | S/B | kindergarten 133 | | | | | <0.05 | P | P | None |
| 11 | S/B | classroom 132 | 0.432 | P | | | | | P | None |
| 12 | B | hallway by boy's restroom | | | | | | | | |
| 13 | B | hallway by girl's restroom | 0.713 | | <0.05 | P | | | P | None |
| 14 | S/B | classroom 145 | | | | | <0.05 | P | P | None |
| 15 | S/B | classroom 146 | | | | | | | | |
| 16 | S/B | classroom 152 | | | | | | | | |
| 17 | S/B | classroom 147 | | | <0.05 | P | | | P | None |
| 18 | S/B | classroom 151 | | | | | <0.05 | P | P | None |
| 19 | S/B | classroom 148 | | | | | | | | |
| 20 | S/B | classroom 150 | <0.05 | P | | | | | P | None |
| 21 | S/B | classroom 149 | | | | | | | | |

Table 6. Service Entry Test Results

| Test Results (Service Entry/SE, Units as Shown) | | | | | | |
|---|------|--------------|----------------------|-----------|-------------|-----------|
| SOURCE INFORMATION | | | Most Recent Sampling | | | |
| Fixture ID | Type | Location | Item | Sampled | Max Value | Pass/Fail |
| 00 | SE | Garbage room | Arsenic | 13-Apr-16 | 2 ppb | P |
| 00 | SE | Garbage room | Cadmium | 30-Mar-19 | 1 ppb | P |
| 00 | SE | Garbage room | Copper | 30-Mar-19 | 0.046 ppm | P |
| 00 | SE | Garbage room | Iron | 30-Mar-19 | 0.086 ppm | P |
| 00 | SE | Garbage room | Lead | 30-Mar-19 | 1 ppb | P |
| 00 | SE | Garbage room | Total Coliforms | 12-Aug-11 | <1 Colonies | P |

"<" means: less than the value shown (below analytical detection limits).

"n/a" means: not applicable.

Table 7. Bacteriological Test Results

Bacteriological Characteristics

Bacteriological testing of selected samples indicated no (zero) coliform bacteria.