



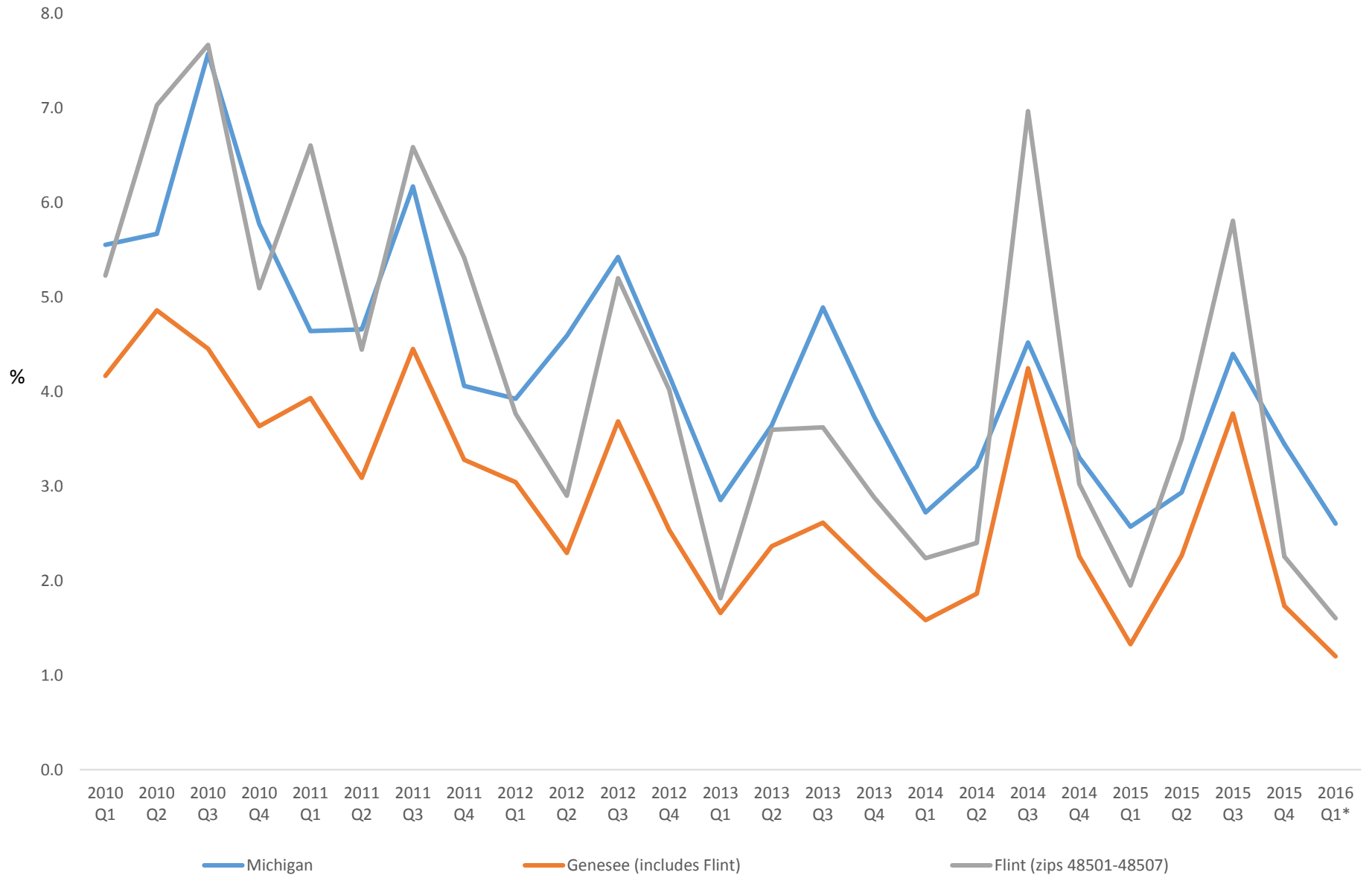
Michigan Department of Health and Human Services (MDHHS) Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Summary as of May 27, 2016

Executive Summary

This report is generated by MDHHS to track Blood Lead Level test results in Flint, Michigan.

- Blood lead level testing is an important part of our efforts to identify people who have been harmed by drinking water that contained lead. However, MDHHS recognizes that the full community of Flint must be the focus of the public health response.
- People who have had multiple tests are counted only once per year for the annual counts. People counted in 2015 who were tested again after 1/1/2016 are counted in both years.
- Counts on this report include both capillary and venous blood tests.
- As of 5/2/2016, this report will no longer include test results for “Additional Impacted Locations” (48509, 48519, 48529, and 48532) because it has been demonstrated by CDC geographers that almost none of the addresses in these areas are serviced by water from the Flint River.
- Between 10/1/2015 and 5/27/2016, an additional 24,999 people were tested in Flint zip codes 48501-48507.
- Continued testing efforts by Genesee County Health Department, MDHHS, and local medical personnel have identified 160 children under age 18 in Flint zip codes 48501-48507 with blood lead levels greater than or equal to 5 mcg/dL (micrograms lead per deciliter of blood) since 10/1/2015.
- Of children younger than 6 years old tested between 10/1/2015 and 5/27/2016, 2.2% from Flint zip codes 48501-48507 had blood lead levels greater than or equal to 5 mcg/dL.
- Nineteen of the 46 children (41.3%) younger than 6 years old from Flint zip codes 48501-48507 with an elevated blood lead level (tested between 4/1/2016 and 5/20/2016) had a previous test result greater than or equal to 5 mcg/dL.

Incidence of elevated blood lead ≥ 5 mcg/dL among children < 6 years of age by quarter, Michigan, 2010-2016

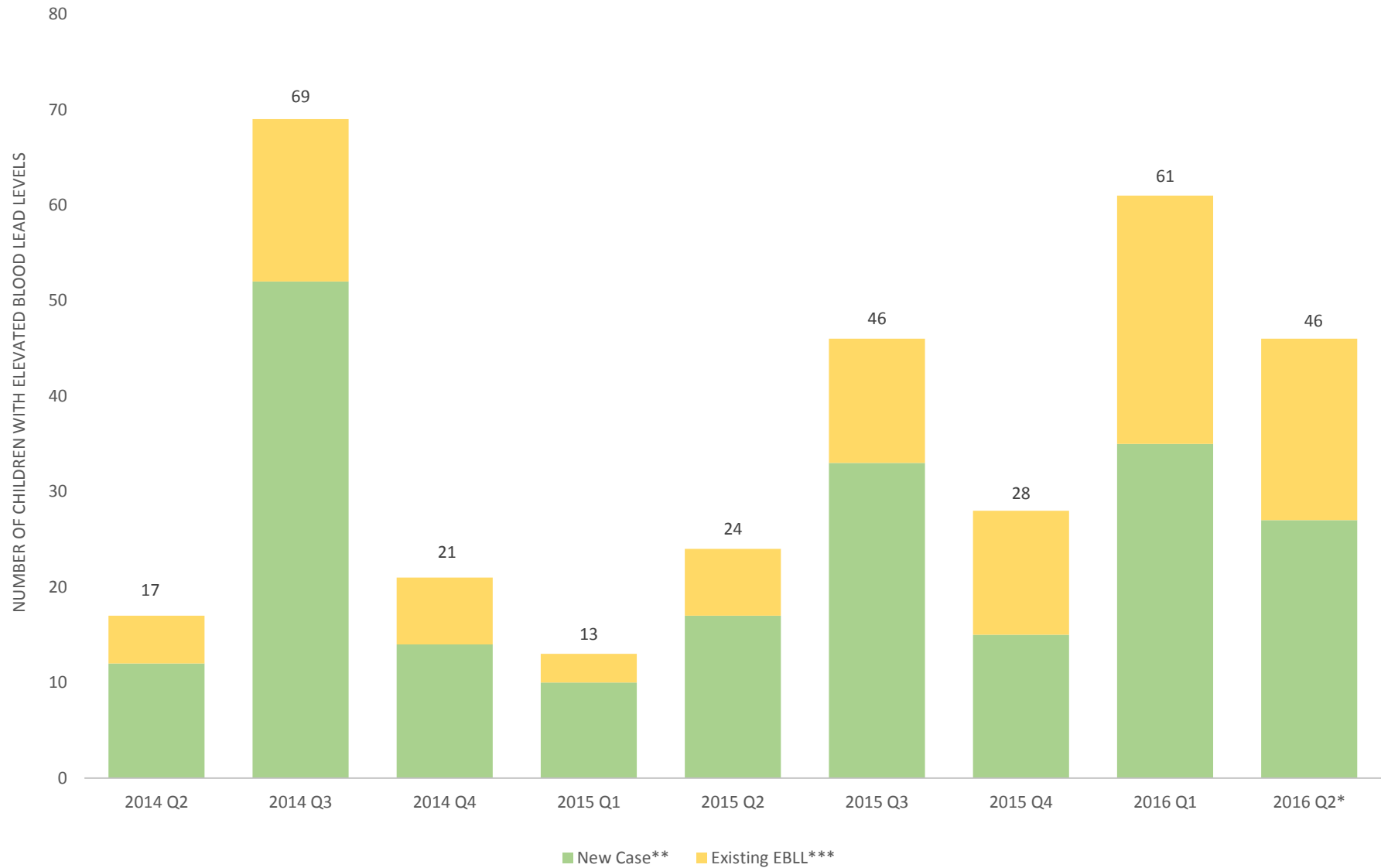


*Data for Quarter 1 of 2016 is subject to change.

**Data for Quarter 2 will be graphed once the quarter is complete.

* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

Elevated Blood Lead Levels (≥ 5 mcg/dL) among Children <6 Years of Age by Quarter, Flint (48501-48507), 4/1/14 - 5/27/16



*Data as of May 27, 2016

**Child never had a previous elevated blood lead level

***Child has a pre-existing elevated blood lead level that has not yet been brought down to <5 mcg/dL

* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

Table 1. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among children less than 6 years of age, 2010 – 2016

| | | Michigan | Genesee County | Flint 48501-48507 |
|-------------------------------|---|-----------------|-----------------------|--------------------------|
| 1/1/2010 to 12/31/2010 | Total tested for lead | 156,014 | 7,053 | 3,630 |
| | Number of test results ≥ 5 mcg/dL | 9,754 | 306 | 230 |
| | Percent of test results ≥ 5 mcg/dL | 6.3% | 4.3% | 6.3% |
| 1/1/2011 to 12/31/2011 | Total tested for lead | 152,333 | 6,760 | 3,145 |
| | Number of test results ≥ 5 mcg/dL | 7,571 | 252 | 182 |
| | Percent of test results ≥ 5 mcg/dL | 5.0% | 3.7% | 5.8% |
| 1/1/2012 to 12/31/2012 | Total tested for lead | 149,037 | 7,152 | 3,198 |
| | Number of test results ≥ 5 mcg/dL | 6,832 | 210 | 130 |
| | Percent of test results ≥ 5 mcg/dL | 4.6% | 2.9% | 4.1% |
| 1/1/2013 to 12/31/2013 | Total tested for lead | 148,400 | 7,132 | 3,142 |
| | Number of test results ≥ 5 mcg/dL | 5,720 | 158 | 96 |
| | Percent of test results ≥ 5 mcg/dL | 3.9% | 2.2% | 3.1% |
| 1/1/2014 to 12/31/2014 | Total tested for lead | 143,838 | 6,820 | 3,102 |
| | Number of test results ≥ 5 mcg/dL | 5,051 | 178 | 122 |
| | Percent of test results ≥ 5 mcg/dL | 3.5% | 2.6% | 3.9% |
| 1/1/2015 to 12/31/2015 | Total tested for lead* | 140,780 | 6,981 | 3,385 |
| | Number of test results ≥ 5 mcg/dL | 4,784 | 159 | 111 |
| | Percent of test results ≥ 5 mcg/dL | 3.4% | 2.3% | 3.3% |
| 10/1/2015 to 5/27/2016 | Total tested for lead* | 95,816 | 9,081 | 5,659 |
| | Number of test results ≥ 5 mcg/dL | 2,933 | 154 | 127 |
| | Percent of test results ≥ 5 mcg/dL | 3.1% | 1.7% | 2.2% |
| 4/1/2014 to 5/27/2016 | Total tested for lead* | 265,480 | 15,535 | 7,929 |
| | Number of test results ≥ 5 mcg/dL | 9,124 | 331 | 233 |
| | Percent of test results ≥ 5 mcg/dL | 3.4% | 2.1% | 2.9% |
| 1/1/2016 to 5/27/2016 | Total tested for lead* | 63,262 | 7,269 | 4,688 |
| | Number of test results ≥ 5 mcg/dL | 1,909 | 125 | 107 |
| | Percent of test results ≥ 5 mcg/dL | 3.0% | 1.7% | 2.3% |

* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

Table 2. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among children 6 to 17 years of age, 2010 – 2016

| | | Michigan | Genesee County | Flint 48501-48507 |
|-------------------------------|---|-----------------|-----------------------|--------------------------|
| 1/1/2010 to 12/31/2010 | Total tested for lead | 14,729 | 760 | 400 |
| | Number of test results ≥ 5 mcg/dL | 665 | 17 | 12 |
| | Percent of test results ≥ 5 mcg/dL | 4.5% | 2.2% | 3.0% |
| 1/1/2011 to 12/31/2011 | Total tested for lead | 12,959 | 959 | 499 |
| | Number of test results ≥ 5 mcg/dL | 474 | 19 | 13 |
| | Percent of test results ≥ 5 mcg/dL | 3.7% | 2.0% | 2.6% |
| 1/1/2012 to 12/31/2012 | Total tested for lead | 12,710 | 1,259 | 561 |
| | Number of test results ≥ 5 mcg/dL | 351 | 13 | 9 |
| | Percent of test results ≥ 5 mcg/dL | 2.8% | 1.0% | 1.6% |
| 1/1/2013 to 12/31/2013 | Total tested for lead | 11,428 | 1,109 | 505 |
| | Number of test results ≥ 5 mcg/dL | 269 | 7 | 3 |
| | Percent of test results ≥ 5 mcg/dL | 2.4% | 0.6% | 0.6% |
| 1/1/2014 to 12/31/2014 | Total tested for lead | 10,562 | 788 | 372 |
| | Number of test results ≥ 5 mcg/dL | 285 | 6 | 5 |
| | Percent of test results ≥ 5 mcg/dL | 2.7% | 0.8% | 1.3% |
| 1/1/2015 to 12/31/2015 | Total tested for lead* | 10,416 | 1,570 | 1,084 |
| | Number of test results ≥ 5 mcg/dL | 254 | 10 | 8 |
| | Percent of test results ≥ 5 mcg/dL | 2.4% | 0.6% | 0.7% |
| 10/1/2015 to 5/27/2016 | Total tested for lead* | 16,257 | 8,213 | 6,430 |
| | Number of test results ≥ 5 mcg/dL | 259 | 40 | 33 |
| | Percent of test results ≥ 5 mcg/dL | 1.6% | 0.5% | 0.5% |
| 4/1/2014 to 5/27/2016 | Total tested for lead* | 30,002 | 9,068 | 6,779 |
| | Number of test results ≥ 5 mcg/dL | 534 | 43 | 35 |
| | Percent of test results ≥ 5 mcg/dL | 1.8% | 0.5% | 0.5% |
| 1/1/2016 to 5/27/2016 | Total tested for lead* | 13,324 | 7,375 | 5,779 |
| | Number of test results ≥ 5 mcg/dL | 203 | 37 | 29 |
| | Percent of test results ≥ 5 mcg/dL | 1.5% | 0.5% | 0.5% |

* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

Table 3. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among adults at least 18 years of age, 2010 – 2016

| | | Michigan | Genesee County | Flint 48501-48507 |
|-------------------------------|---|-----------------|-----------------------|--------------------------|
| 1/1/2010 to 12/31/2010 | Total tested for lead | 13,681 | 588 | 188 |
| | Number of test results ≥ 5 mcg/dL | 1,459 | 42 | 18 |
| | Percent of test results ≥ 5 mcg/dL | 10.7% | 7.1% | 9.6% |
| 1/1/2011 to 12/31/2011 | Total tested for lead | 13,112 | 528 | 132 |
| | Number of test results ≥ 5 mcg/dL | 1,367 | 43 | 16 |
| | Percent of test results ≥ 5 mcg/dL | 10.4% | 8.1% | 12.1% |
| 1/1/2012 to 12/31/2012 | Total tested for lead | 12,914 | 539 | 148 |
| | Number of test results ≥ 5 mcg/dL | 1,414 | 33 | 11 |
| | Percent of test results ≥ 5 mcg/dL | 10.9% | 6.1% | 7.4% |
| 1/1/2013 to 12/31/2013 | Total tested for lead | 12,081 | 484 | 132 |
| | Number of test results ≥ 5 mcg/dL | 1,499 | 54 | 16 |
| | Percent of test results ≥ 5 mcg/dL | 12.4% | 11.2% | 12.1% |
| 1/1/2014 to 12/31/2014 | Total tested for lead | 12,574 | 436 | 111 |
| | Number of test results ≥ 5 mcg/dL | 1,420 | 44 | 12 |
| | Percent of test results ≥ 5 mcg/dL | 11.3% | 10.1% | 10.8% |
| 1/1/2015 to 12/31/2015 | Total tested for lead* | 13,676 | 1,250 | 811 |
| | Number of test results ≥ 5 mcg/dL | 1,367 | 48 | 21 |
| | Percent of test results ≥ 5 mcg/dL | 10.0% | 3.8% | 2.6% |
| 10/1/2015 to 5/27/2016 | Total tested for lead* | 26,796 | 15,811 | 12,910 |
| | Number of test results ≥ 5 mcg/dL | 1,197 | 247 | 204 |
| | Percent of test results ≥ 5 mcg/dL | 4.5% | 1.6% | 1.6% |
| 4/1/2014 to 5/27/2016 | Total tested for lead* | 43,531 | 16,420 | 13,074 |
| | Number of test results ≥ 5 mcg/dL | 2,761 | 294 | 216 |
| | Percent of test results ≥ 5 mcg/dL | 6.3% | 1.8% | 1.7% |
| 1/1/2016 to 5/27/2016 | Total tested for lead* | 23,191 | 15,037 | 12,325 |
| | Number of test results ≥ 5 mcg/dL | 877 | 224 | 191 |
| | Percent of test results ≥ 5 mcg/dL | 3.8% | 1.5% | 1.5% |

* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

Table 4. Total incidence of elevated blood lead levels (≥ 5 mcg/dL), 2010 – 2016

| | | Michigan | Genesee County | Flint 48501-48507 |
|------------------------|---|----------|----------------|-------------------|
| 1/1/2010 to 12/31/2010 | Total tested for lead | 184,424 | 8,401 | 4,218 |
| | Number of test results ≥ 5 mcg/dL | 11,878 | 365 | 260 |
| | Percent of test results ≥ 5 mcg/dL | 6.4% | 4.3% | 6.2% |
| 1/1/2011 to 12/31/2011 | Total tested for lead | 178,404 | 8,247 | 2,726 |
| | Number of test results ≥ 5 mcg/dL | 9,412 | 314 | 211 |
| | Percent of test results ≥ 5 mcg/dL | 5.3% | 3.8% | 7.7% |
| 1/1/2012 to 12/31/2012 | Total tested for lead | 174,661 | 8,950 | 3,907 |
| | Number of test results ≥ 5 mcg/dL | 8,597 | 256 | 150 |
| | Percent of test results ≥ 5 mcg/dL | 4.9% | 2.9% | 3.8% |
| 1/1/2013 to 12/31/2013 | Total tested for lead | 171,909 | 8,725 | 3,779 |
| | Number of test results ≥ 5 mcg/dL | 7,488 | 219 | 115 |
| | Percent of test results ≥ 5 mcg/dL | 4.4% | 2.5% | 3.0% |
| 1/1/2014 to 12/31/2014 | Total tested for lead | 166,974 | 8,044 | 3,585 |
| | Number of test results ≥ 5 mcg/dL | 6,756 | 228 | 139 |
| | Percent of test results ≥ 5 mcg/dL | 4.0% | 2.8% | 3.9% |
| 1/1/2015 to 12/31/2015 | Total tested for lead* | 164,872 | 9,801 | 5,280 |
| | Number of test results ≥ 5 mcg/dL | 6,405 | 217 | 140 |
| | Percent of test results ≥ 5 mcg/dL | 3.9% | 2.2% | 2.7% |
| 10/1/2015 to 5/27/2016 | Total tested for lead* | 138,869 | 33,105 | 24,999 |
| | Number of test results ≥ 5 mcg/dL | 4,389 | 441 | 364 |
| | Percent of test results ≥ 5 mcg/dL | 3.2% | 1.3% | 1.5% |
| 4/1/2014 to 5/27/2016 | Total tested for lead* | 339,013 | 41,023 | 27,782 |
| | Number of test results ≥ 5 mcg/dL | 12,419 | 668 | 484 |
| | Percent of test results ≥ 5 mcg/dL | 3.7% | 1.6% | 1.7% |
| 1/1/2016 to 5/27/2016 | Total tested for lead* | 99,777 | 29,681 | 22,792 |
| | Number of test results ≥ 5 mcg/dL | 2,989 | 386 | 327 |
| | Percent of test results ≥ 5 mcg/dL | 3.0% | 1.3% | 1.4% |

* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.