

Jefferson Parish Water Quality Laboratory 2017 Consumer Confidence Report

| 2017 Detected <u>REGULATED</u> Contaminants | | MCL Violation If | Units | MCLG | East Jefferson | | West Jefferson | | Violation Yes / No | Source of Contaminant |
|--|--|--|-------|------|----------------|---------------|----------------|--------|--------------------|---|
| | | | | | Highest Month | Highest Month | | | | |
| Total Coliform Bacteria (Percentage of monthly samples containing coliform bacteria) | | > 5% of monthly samples containing coliform bacteria | % | 0 | 1.3 | | 2.3 | | No | An indicator which is naturally present in the environment and not in itself harmful. |
| | | MCL Violation If | Units | MCLG | East Jefferson | | West Jefferson | | Violation Yes / No | Source of Contaminant |
| | | | | | Max Value | Min % | Max Value | Min % | | |
| Turbidity (Lowest monthly percentage of samples at or below 0.3 NTU and the highest single sample result) | | < 95% at or below 0.3 NTU or a single sample > 1 NTU | % | NA | NA | 99.4 | NA | 100 | No | Naturally present particulate matter derived from soil runoff which is used as an indicator and is not in itself harmful. |
| | | | NTU | NA | 0.5 | NA | 0.3 | NA | | |
| | | MCL Violation If | Units | MCLG | East Jefferson | | West Jefferson | | Violation Yes / No | Source of Contaminant |
| | | | | | Range | Min | Range | Min | | |
| Total Organic Carbon (TOC) (Ratio of the percentage of the TOC removed divided by the percentage TOC required to be removed) | | Ratio < 1 (Annual Average) | Ratio | NA | 0.9 - 1.4 | 1.1 | 0.6 - 1.5 | 1.0 | No | Harmless natural organic material which forms chlorinated by-products (TTHMs & THAAs) during disinfection |
| Contaminant | | MCL Violation If | Units | MCLG | East Jefferson | | West Jefferson | | Violation Yes / No | Source of Contaminant |
| | | | | | Range | Max | Range | Max | | |
| Alachlor | | > 2 (Annual Average) | ppb | 3 | BD - 0.4 | 0.2 | BD - 0.4 | 0.2 | No | Runoff from herbicide used on row crops, primarily in the corn belt |
| Arsenic | | > 10 (Annual Average) | ppb | 0 | 0.8 - 1.5 | 1.4 | 0.8 - 1.3 | 1.3 | No | Erosion of natural deposits; Runoff from orchards, glass and electronics production wastes |
| Barium | | > 2000 (Annual Average) | ppb | 2000 | 52 - 61 | 60 | 52 - 60 | 60 | No | Discharges of drilling wastes and metal refineries; erosion of natural deposits |
| Beta Particle Activity | | > 50 (Annual Average)* | pCi/L | 0 | BD - 3.1 | 2.6 | NA | 3.2 | No | Decay of natural and man-made deposits |
| Chromium | | > 100 (Annual Average) | ppb | 100 | 0.6 - 1.4 | 0.9 | 0.5 - 1.3 | 0.8 | No | Erosion of natural deposits |
| Fluoride | | > 4 (Annual Average) | ppm | 4 | 0.2 - 1.0 | 1.0 | 0.5 - 1.0 | 1.0 | No | Erosion of natural deposits and water additive promoting strong teeth |
| Hexachlorocyclopentadiene | | > 50 (Annual Average) | ppb | 50 | BD - 0.03 | 0.03 | NA | NA | No | Discharge from chemical factories |
| Nitrate (as nitrogen) | | > 10 (Any time) | ppm | 10 | 0.4 - 2.3 | 2.3 | 0.5 - 2.3 | 2.3 | No | Runoff from fertilizer use and erosion of natural deposits |
| Selenium | | > 50 (Annual Average) | ppb | 50 | BD | BD | BD - 0.6 | 0.6 | No | Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines |
| Simazine | | > 3 (Annual Average) | ppb | 3 | BD - 0.2 | 0.2 | BD - 0.1 | 0.2 | No | Runoff from herbicide used on row crops, primarily in the corn belt |
| Total Chlorine Residual | | > 4 (Annual Average) | ppm | 4 | 0.5 - 3.7 | 2.1 | 0.02 - 3.8 | 2.2 | No | Required by EPA for Disinfection |
| THAAs (Total haloacetic acids) | | > 60 (Annual Average) | ppb | 0 | 8 - 78 | 53 | 4 - 77 | 58.0 | No | By-product of drinking water disinfection using chlorine |
| TTHMs (Total trihalomethanes) | | > 80 (Annual Average) | ppb | 0 | 19 - 131 | 81 | 24 - 145 | 92 | No | By-product of drinking water disinfection using chlorine |
| Uranium | | > 30 (Annual Average) | ppb | 0 | 1.0 - 1.1 | 1.1 | NA | 1.3 | No | Erosion of natural deposits |
| | | Action Level (AL) Exceeded If | Units | MCLG | East Jefferson | | West Jefferson | | Violation Yes / No | Source of Contaminant |
| | | | | | 90th Pct | # > AL | 90th Pct | # > AL | | |
| Copper (2016 last required monitoring) | | > 1.3 | ppm | 1.3 | 0.3 | 0 | 0.4 | 1 | No | Household plumbing corrosion and erosion of natural deposits |
| Lead (2016 last required monitoring) | | > 15 | ppb | 0 | 6 | 1 | 3 | 0 | No | Corrosion of household plumbing |

" * " = EPA considers 50 pCi/L to be the level of concern for beta particles; " > " = Greater than; " < " = Less than; # > AL = number of samples greater than the action level; AL = Action Level - The concentration of the 90th percentile of analysis results, when exceeded, triggers treatment or other requirements which a water system must follow (there is no MCL or MCLG for these contaminants); **Annual Average** = Annual running average determined from the average of the sample results over the previous 12 months; **BD** = Below detection of the analytical method - the contaminant was not found; **Max** = Maximum observed value or maximum annual running average (annual average) used for regulatory compliance; **MCL** = Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water which is set as close to the MCLGs as feasible using the best available treatment technology; **MCLG** = Maximum Contaminant Level Goal - The level of a contaminant in drinking water below which there is no known or expected risk to health - MCLGs allow for a margin of safety; **NA** = Not applicable; **NTU** = Nephelometric Turbidity Units; **90th Pct** = 90th percentile of sample analysis results; **pCi/L** = Picocuries per liter (a measure of radioactivity); **50 pCi/L** = 4 milliroentgen equivalent man / year (4 mrem/yr); **ppm** = Parts per million or milligrams per liter (mg/L) - equivalent to 1 minute in 2 years or \$0.01 in \$10,000; **ppb** = Parts per billion or micrograms per liter (ug/L) - equivalent to 1 minute in 2,000 years or \$0.01 in \$10 million; **Range** = Range of all sample analysis results observed; **TT** = Treatment technique - A required process intended to reduce the level of a contaminant in drinking water