

Delaware River Regional Water Treatment Plant

2016 Table of Detected Contaminants

| Regulated Substances | | | | | | | |
|---|-------|----------------------|-----------|-----------------------------|-------------------------------|----------------|---|
| Parameter | Units | Compliance Achieved? | MCLG | MCL | Highest Level Detected Result | Range Detected | Typical Source |
| Inorganics | | | | | | | |
| Nitrate | ppm | Yes | 10 | 10 | 1 | 1 | Runoff from fertilizer use; industrial or domestic wastewater discharges; erosion of natural deposits |
| Disinfectants | | | | | | | |
| Chlorine | ppm | Yes | NA | TT = ≥ 0.20 | 0.36 ¹ | 0.36 to 1.02 | Water additive used to control microbes |
| | | Yes | MRDLG = 4 | MRDL = 4 | 1.02 ¹ | | |
| Turbidity | | | | | | | |
| Turbidity ² | NTU | Yes | 0 | TT = 1 NTU | 0.16 | 0.04 to 0.16 | Soil runoff |
| | % | Yes | | TT = % of samples < 0.3 NTU | 100% | NA | Soil runoff |
| Treatment Byproducts Precursor Removal | | | | | | | |
| Total Organic Carbon (TOC) | % | Yes | NA | TT $\geq 35\%$ Removal | 44% ³ | 44% to 63% | Naturally present in the environment. |
| Footnotes | | | | | | | |
| ¹ Data represents the lowest and highest chlorine residual entering the distribution system from our surface water treatment plant | | | | | | | |
| ² 100% of the turbidity readings were below the treatment technique requirement of 0.3 NTU. Turbidity is a measure of the cloudiness of the water. We monitor turbidity because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants. | | | | | | | |
| ³ Data represents the lowest removal of Total Organic Carbon (TOC). | | | | | | | |

| Unregulated Contaminants Monitoring (UCMR3) (2013 - 2014) | | | | |
|---|-------|----------------------------|----------------|--|
| Parameter | Units | Highest Locational Average | Range Detected | Typical Source |
| Hexavalent Chromium | ppb | 1.0 | 0.65 to 1.22 | Naturally-occurring element; used in making steel and other alloys; chromium -3 or -6 forms are used for chrome plating, dyes and pigments, leather tanning, and wood preservation |
| Molybdenum | ppb | 1.4 | 1.2 to 1.7 | Naturally-occurring elemental found in ores and present in plants, animals and bacteria; commonly used form molybdenum trioxide used as a chemical reagent |
| Strontium | ppb | 79 | 74.3 to 90.2 | Naturally-occurring element; historically commercial use of strontium has been in the faceplate glass of cathode-ray tube televisions to block x-ray emissions |