

# Patoka Lake Regional Water District

## WATER QUALITY DATA 2016

### Inorganic Contaminants(2016)

|                | MCL<br>MG/L | D.L.<br>MG/L | RESULT<br>MG/L |
|----------------|-------------|--------------|----------------|
| Antimony       | 0.006       | 0.001        | BDL            |
| Arsenic        | 0.01        | 0.001        | BDL            |
| Barium         | 2           | 0.002        | 0.024          |
| Beryllium      | 0.004       | 0.0003       | BDL            |
| Cadmium        | 0.005       | 0.001        | BDL            |
| Chromium       | 0.1         | 0.0009       | BDL            |
| Cyanide, Total | 0.2         | 0.02         | BDL            |
| Fluoride       | 4           | 0.1          | 0.6            |
| Mercury        | 0.002       | 0.0001       | BDL            |
| Nickel         | 0.1         | 0.001        | BDL            |
| Nitrate        | 10          | 0.1          | BDL            |
| Selenium       | 0.05        | 0.002        | BDL            |
| Sodium         | No MCL      |              | 2.3            |
| Thallium       | 0.002       | 0.0003       | BDL            |
| Nitrite        | 1           |              |                |

### Definitions

|             |  |
|-------------|--|
| "MCL"       | means maximum contaminant level                |
| "BDL"       | means below detectable limit                   |
| "pCi/L"     | means picocuries per liter                     |
| "D.L."      | means detectable limit                         |
| 2012 "mg/L" | means part per million or milligrams per liter |
| "NTU"       | means nephelometric turbidity unit             |
| "µg/L"      | means part per billion or micrograms per liter |
| "U.C."      | means unregulated contaminants                 |

### Radioactive Contaminants(2016)

|                 | MCL  | RESULT      |
|-----------------|------|-------------|
| Uranium         | 20.1 | .01+0.00    |
| Radium-226      |      | .14 + .08   |
| Radium-228      |      | .83 + 0.45  |
| Combined Radium | 5    | 0.97 + 0.46 |

### Synthetic Organic Contaminants(2016)

|                           | MCL<br>ug/L | D.L.<br>ug/L | RESULT<br>ug/L |
|---------------------------|-------------|--------------|----------------|
| Alachlor(Lasso)           | 2           | 0.1          | BDL            |
| Atrazine                  | 3           | 0.1          | BDL            |
| Benzo(a)pyrene            | 0.2         | 0.02         | BDL            |
| Carbofuran                | 40          | 0.9          | BDL            |
| Chlordane(alpha & gamma)  | 2           | 0.1          | BDL            |
| 2,4-D                     | 70          | 0.1          | BDL            |
| Dalapon                   | 200         | 1            | BDL            |
| DBCP                      | 0.2         | 0.01         | BDL            |
| Dinoseb                   | 7           | 0.1          | BDL            |
| 2,3,7,8-TCDD(Dioxin)      | 30 pg/L     | 5.0 pg/L     | BDL            |
| Diquat                    | 20          | 0.4          | BDL            |
| Di(2-ethylhexyl)adipate   | 400         | 0.6          | BDL            |
| Di(2-ethylhexyl)phthalate | 6           | 0.6          | BDL            |
| Endothall                 | 100         | 9            | BDL            |
| Endrin                    | 2           | 0.01         | BDL            |
| Ethylene Dibromide(EDB)   | 50 ng/L     | 10 ng/L      | BDL            |
| Glyphosate (Round-Up)     | 700         | 6            | BDL            |
| Heptachlor                | 0.4         | 0.04         | BDL            |
| Heptachlor Epoxide        | 0.2         | 0.02         | BDL            |
| Hexachlorobenzene         | 1           | 0.1          | BDL            |
| Hexachlorocyclopentadiene | 50          | 0.1          | BDL            |
| Lindane                   | 0.2         | 0.02         | BDL            |
| Methoxychlor              | 40          | 0.1          | BDL            |
| Oxamyl(Vydate)            | 200         | 1            | BDL            |
| Pentachlorophenol         | 1           | 0.04         | BDL            |
| Picloram(Tordon)          | 500         | 0.1          | BDL            |
| PCBs                      | 0.5         | 0.5          | BDL            |
| Simazine                  | 4           | 0.07         | BDL            |
| 2,4,5-TP(Silvex)          | 50          | 0.1          | BDL            |
| Toxaphene                 | 3           | 1            | BDL            |

### Volatile Organic Contaminants(2016)

|                              | MCL<br>ug/L | D.L.<br>ug/L | RESULT<br>ug/L |
|------------------------------|-------------|--------------|----------------|
| Benzene                      | 5           | 0.5          | BDL            |
| Carbon Tetrachloride         | 5           | 0.5          | BDL            |
| Chlorobenzene                | 100         | 0.5          | BDL            |
| 1,2-Dichlorobenzene          | 600         | 0.5          | BDL            |
| 1,4-Dichlorobenzene          | 75          | 0.5          | BDL            |
| 1,2-Dichloroethane           | 5           | 0.5          | BDL            |
| 1,1-Dichloroethylene         | 7           | 0.5          | BDL            |
| 1,2 Dichloroethylene,cis     | 70          | 0.5          | BDL            |
| 1,2-Dichloroethylene,trans   | 100         | 0.5          | BDL            |
| Dichloromethane              | 5           | 0.5          | BDL            |
| 1,2-Dichloropropane          | 5           | 0.5          | BDL            |
| Ethylbenzene                 | 700         | 0.5          | BDL            |
| Styrene                      | 100         | 0.5          | BDL            |
| Tetrachloroethylene          | 5           | 0.5          | BDL            |
| Toluene                      | 1000        | 0.5          | BDL            |
| 1,2,4-Trichlorobenzene       | 70          | 0.5          | BDL            |
| 1,1,1-Trichloroethane        | 200         | 0.5          | BDL            |
| 1,1,2-Trichloroethane        | 5           | 0.5          | BDL            |
| Trichloroethylene            | 5           | 0.5          | BDL            |
| Vinyl Chloride               | 2           | 0.2          | BDL            |
| Total Xylenes                | 10000       | 0.5          | BDL            |
| Methy-T-butyl ether          |             | 0.5          | BDL            |
| <b>TOTAL TRIHALOMETHANES</b> | <b>80</b>   | <b>0.5</b>   | <b>51.4</b>    |
| Bromodichloromethane         |             | 0.5          | 4.4            |
| Bromoform                    |             | 0.5          | BDL            |
| Chlorodibromomethane         |             | 0.5          | BDL            |
| Chloroform                   |             | 0.5          | 47             |

|                          | MCL<br>µg/L   | RESULT<br>µg/L |
|--------------------------|---------------|----------------|
| Haloacetic Acids 5       | 60            | 37.6 Average   |
| Total Trihalomethanes(4) | 2016 Range 80 | 29 To 47       |
|                          | 2016 Range    | 39.6 Average   |
|                          |               | 27.5 To 60.3   |
| Lead 90th percentile     | 2014 0.015    | 0.0048         |
| Copper 90th percentile   | 2014 1.3      | 0.21           |

### Turbidity Measurements Over .30 (2016)

None

### Highest Turbidity Measurement 2016

.23 March 24<sup>th</sup> 2016

|                            |     |             |        |        |
|----------------------------|-----|-------------|--------|--------|
| Total Organic Carbon (TOC) | MCL | Range       | 23.00% | To 43% |
| Percent Removal TOC        | 25% | Average<25% | 31.4%  |        |