

**Citizens Energy Group--Citizens Indianapolis and Citizens Morgan County  
Consumer Confidence Report Data 2015**

Contaminant	MCLG (Goal)	MCL (Limit)	2015 Results System Wide	Compliance Achieved	Possible Source
<b>Inorganics:</b>					
Arsenic (ppb)	0 ppb	10 ppb	BDL (ND - 2.5)	Yes	Natural deposits
Barium (ppm)	2 ppm	2 ppm	0.14 (0.027 - 0.33)	Yes	Natural deposits
Chromium (ppb)	100 ppb	100 ppb	BDL (ND - 3.3)	Yes	Natural deposits
Fluoride (ppm)	4 ppm	4 ppm	0.80 (0.03 - 1.4)	Yes	Natural deposits & treatment additive
Nitrate (ppm)	10 ppm	10 ppm	0.80 (ND - 5.4)	Yes	Fertilizer, septic tank leachate
<b>Other Regulated Organics:</b>					
2,4-D (ppb)	70 ppb	70 ppb	BDL (ND - 0.60)	Yes	Herbicide runoff
Alachlor (ppb)	3 ppb	3 ppb	BDL (ND - 0.70)	Yes	Herbicide runoff
Atrazine (ppb)	3 ppb	3 ppb	0.33 (ND - 2.2)	Yes	Herbicide runoff
Benzo[a]pyrene (ppb)	0 ppb	0.20 ppb	BDL (ND - 0.040)	Yes	Leaching from linings of water storage tanks and distribution lines
cis-1,2-Dichloroethylene (ppb)	70 ppb	70 ppb	ND	Yes	Discharge from industrial sources
Ethyl benzene (ppb)	700 ppb	700 ppb	BDL (ND - 0.52)	Yes	Discharge from petroleum refineries
Simazine (ppb)	4 ppb	4 ppb	BDL (ND - 1.2)	Yes	Herbicide runoff
Toluene (ppb)	1,000 ppb	1,000 ppb	BDL (ND - 1.4)	Yes	Discharge from petroleum refineries
Total Xylenes (ppb)	10,000 ppb	10,000 ppb	BDL (ND - 2.3)	Yes	Discharge from petroleum refineries
<b>Turbidity: TT</b>					
Turbidity (NTU)	N/A	1 NTU	0.11 (0.060 - 0.44)	Yes	Soil runoff
Turbidity (% below TT)	N/A	95% <0.3 NTU	99.6%	Yes	Soil runoff
<b>Secondary Drinking Water Standards:</b>					
	<b>MCLG (Goal)</b>	<b>SMCL</b>			
Aluminum (ppb)		200 ppb	24 (ND - 88)	N/A	Natural deposits; water treatment additive
Chloride (ppm)		250 ppm	73 (15 - 133)	N/A	Natural deposits; water treatment additive
Dicamba (ppb)		N/A	ND	N/A	Herbicide runoff
Hardness (ppm)		N/A	306 (122 - 482)	N/A	Erosion of natural deposits; leaching
Iron (ppm)		0.3 ppm	BDL (ND - 0.22)	N/A	Erosion of natural deposits; leaching
Manganese (ppm)		0.05 ppm	BDL (ND - 0.024)	N/A	Erosion of natural deposits; leaching
Metolachlor (ppb)		N/A	BDL (ND - 0.80)	N/A	Herbicide runoff
Nickel (ppb)	100 ppb	N/A	BDL (ND - 2.8)	N/A	Erosion of natural deposits; leaching
pH (Standard Units)		6.5 - 8.5	7.64 (7.04 - 8.29)	N/A	
Sodium (ppm)		N/A	39 (10 - 132)	N/A	Erosion of natural deposits; leaching
Sulfate (ppm)		250 ppm	54 (6.0 - 186)	N/A	Erosion of natural deposits; leaching
Zinc (ppb)		5000 ppb	BDL (ND - 14)	N/A	Natural deposits
<b>Unregulated Contaminant Monitoring:</b>					
Chlorate (ppb)		N/A	493 (64 - 1800)	N/A	Agricultural defoliant or desiccant; disinfection byproduct
Strontium (ppb)		N/A	227 (110 - 510)	N/A	Naturally-occurring element; historically, commercial use of strontium has been in the faceplate glass of cathode-ray tube televisions to block x-ray emissions
Chromium-6 (ppb)		N/A	0.080 (ND - 0.41)	N/A	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)		N/A	3.9 (2.2 - 8.5)	N/A	Naturally-occurring element found in ores and present in plants, animals and bacteria; commonly used form molybdenum trioxide used as a chemical reagent
Vanadium (ppb)		N/A	0.42 (ND - 1.3)	N/A	Naturally-occurring elemental metal; used as vanadium pentoxide which is a chemical intermediate and a catalyst
1,4-Dioxane (ppb)		N/A	0.074 (ND - 0.28)	N/A	Cyclic aliphatic ether; used as a solvent or solvent stabilizer in manufacture and processing of paper, cotton, textile products, automotive coolant, cosmetics and shampoos
<b>Untreated Source Water:</b>					
Cryptosporidium (org/10L)			2 (1 - 4) oocysts / 10 L	N/A	
Giardia (org/10L)			6 (ND - 13) cysts / 10 L	N/A	
TOC (Untreated Water, ppm)	N/A	N/A	4.0 (2.7 - 7.7)	N/A	Naturally present in the environment
<b>Indianapolis</b>					
<b>Disinfectant Residual:</b>	<b>MRDLG</b>	<b>MRDL</b>			

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Chlorine (as Cl <sub>2</sub> )	4 ppm	4 ppm	1.5 (ND - 2.5)	Yes	Water additive used to control microbes.
<b>Copper and Lead (Indianapolis)</b>					
	<b>MCLG</b>	<b>AL</b>			
Copper (ppm) [2015 Data]	1.3 ppm	1.3 ppm	0.49 (1 of 53 > AL)	Yes	Corrosion of customer plumbing
Lead (ppb) [2015 Data]	0 ppb	15 ppb	8.3 (1 of 53 > AL)	Yes	Corrosion of customer plumbing
<b>Organic Disinfection By-products (Indianapolis)</b>					
Total Trihalomethanes (TTHMs)	N/A	80 ppb	69 (11 - 91) Highest Locational Running Annual Average	Yes	By-product of chlorination treatment
Haloacetic acids (HAA5)	N/A	60 ppb	56 (5.6 - 96) Highest Locational Running Annual Average	Yes	By-product of chlorination treatment
<b>Microorganisms (Indianapolis)</b>					
E coli	0	1	0	Yes	Human and animal fecal waste
Total Coliforms		5.0%	0.51% (0% - 2.7%)	Yes	Naturally present in the environment
Cryptosporidium (org/10L)	0 org/10L	TT	No Organisms Found	Yes	Removed during treatment
Giardia (org/10L)	0 org/10L	TT	No Organisms Found	Yes	Removed during treatment
<b>Radionuclides (Indianapolis): [2010 Data]</b>					
Beta/Photon Emitters (pCi/yr)	0	50	0.9 - 10.2	Yes	Erosion of natural deposits
Combined Radium-226/228 (pCi/L)	0	5	0.58 - 2.1	Yes	Erosion of natural deposits
Gross alpha excluding radon and uranium	0	15	1.6 - 4.4	Yes	Erosion of natural deposits
Uranium	0	30	0.253 - 1.22	Yes	Erosion of natural deposits
<b>Morgan County</b>					
<b>Disinfectant Residual:</b>					
	<b>MRDLG</b>	<b>MRDL</b>			
Chlorine (as Cl <sub>2</sub> )	4 ppm	4 ppm	1.1 (0.50 - 1.6)	Yes	Water additive used to control microbes.
<b>Copper and Lead (Morgan County)</b>					
	<b>MCLG</b>	<b>AL</b>			
Copper (ppm) [2015 Data]	1.3 ppm	1.3 ppm	0.32 (0 of 26 > AL)	Yes	Corrosion of customer plumbing
Lead (ppb) [2015 Data]	0 ppb	15 ppb	5.3 (1 of 26 > AL)	Yes	Corrosion of customer plumbing
<b>Organic Disinfection By-products (Morgan County)</b>					
Total Trihalomethanes (TTHMs)	N/A	80 ppb	11 (Highest Sample)	Yes	By-product of chlorination treatment
Haloacetic acids (HAA5)	N/A	60 ppb	2.4 (Highest Sample)	Yes	By-product of chlorination treatment
<b>Microorganisms (Morgan County)</b>					
E coli	0	1	0	Yes	Human and animal fecal waste
Total Coliforms		5.0%	0	Yes	Naturally present in the environment

Note: \*\*The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old. Some contaminants are sampled less frequently than once a year; as a result, not all contaminants were sampled for during the CCR calendar year. If any of these contaminants were detected the last time they were sampled for, they are included in the table along with the date that the detection occurred. Compliance monitoring for lead and copper is conducted every 3 years. Radiochemical contaminant monitoring is conducted every 9 years.