

**Citizens Energy Group--Indianapolis, Morgan County, and Citizens Southern Madison
Consumer Confidence Report Data 2016**

Contaminant	MCLG (Goal)	MCL (Limit)	Average of All Samples	Maximum of All Samples	System Wide Range	Compliance Achieved	Possible Source
Inorganics:							
Antimony (ppb)	6 ppb	6 ppb	BDL	0.60	ND - 0.60	Yes	Natural deposits
Arsenic (ppb)	0 ppb	10 ppb	BDL	2.8	ND - 2.8	Yes	Natural deposits
Barium (ppm)	2 ppm	2 ppm	0.14	0.34	0.035 - 0.34	Yes	Natural deposits
Chromium (ppb)	100 ppb	100 ppb	1.2	3.8	ND - 3.8	Yes	Natural deposits
Fluoride (ppm)	4 ppm	4 ppm	0.80	1.3	0.13 - 1.3	Yes	Natural deposits & treatment additive
Nitrate (ppm)	10 ppm	10 ppm	0.99	4.6	ND - 4.6	Yes	Fertilizer, septic tank leachate
Other Regulated Organics:							
2,4-D (ppb)	70 ppb	70 ppb	0.13	0.50	ND - 0.50	Yes	Herbicide runoff
Alachlor (ppb)	3 ppb	3 ppb	ND	ND	ND	Yes	Herbicide runoff
Atrazine (ppb)	3 ppb	3 ppb	0.15	1.5	ND - 1.5	Yes	Herbicide runoff
Benzo[a]pyrene (ppb)	0 ppb	0.20 ppb	ND	ND	ND	Yes	Leaching from linings of water storage tanks and distribution lines
Ethyl benzene (ppb)	700 ppb	700 ppb	ND	ND	ND	Yes	Discharge from petroleum refineries
Simazine (ppb)	4 ppb	4 ppb	BDL	1.1	ND - 1.1	Yes	Herbicide runoff
Toluene (ppb)	1,000 ppb	1,000 ppb	BDL	1.8	ND - 1.8	Yes	Discharge from petroleum refineries
Total Xylenes (ppb)	10,000 ppb	10,000 ppb	BDL	0.81	ND - 0.81	Yes	Discharge from petroleum refineries
Turbidity:							
		TT					
Turbidity (NTU)	N/A	1 NTU	0.11	0.20	0.014 - 0.20	Yes	Soil runoff
Turbidity (% below TT)	N/A	95% <0.3 NTU			100%	Yes	Soil runoff
*Secondary standards are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water							
Secondary Drinking Water Standards:							
	MCLG (Goal)	SMCL					
Aluminum (ppb)		200 ppb	37	300	ND - 300	N/A	Natural deposits; water treatment additive
Chloride (ppm)		250 ppm	66	140	14 - 140	N/A	Natural deposits; water treatment additive
Hardness (ppm)		N/A	309	534	129 - 534	N/A	Erosion of natural deposits; leaching
Iron (ppm)		0.3 ppm	BDL	0.148	ND - 0.148	N/A	Erosion of natural deposits; leaching
Manganese (ppm)		0.05 ppm	BDL	0.022	ND - 0.022	N/A	Erosion of natural deposits; leaching
Melolachlor (ppb)		N/A	BDL	0.2	ND - 0.20	N/A	Herbicide runoff
Nickel (ppb)	100 ppb	N/A	ND	ND	ND	N/A	Erosion of natural deposits; leaching
pH (Standard Units)		6.5 - 8.5	7.66	8.15	7.11 - 8.15	N/A	Erosion of natural deposits; leaching
Sodium (ppm)		N/A	35	94	8.1 - 94	N/A	Erosion of natural deposits; leaching
Sulfate (ppm)		250 ppm	52	214	3.3 - 214	N/A	Erosion of natural deposits; leaching
Zinc (ppb)		5000 ppb	BDL	5.1	ND - 5.1	N/A	Natural deposits
Untreated Source Water:							
Cryptosporidium (org/10L)			1	2	1 - 2 oocysts / 10 L	N/A	
Giardia (org/10L)			5	7	ND - 7 cysts / 10 L	N/A	Naturally present in the environment
TOC (Untreated Water, ppm)	N/A	N/A	4.1	7.2	2.7 - 7.2	N/A	
Indianapolis							
Disinfectant Residual:							
	MRDLG	MRDL					
Chlorine (as Cl2)	4 ppm	4 ppm	1.5	2.7	ND - 2.7	Yes	Water additive used to control microbes.
Copper and Lead (Indianapolis)							
	MCLG	AL					
Copper (ppm) [2016 Data]	1.3 ppm	1.3 ppm			0.20 (0 of 52 > AL) 90th Percentile	Yes	Corrosion of customer plumbing
Lead (ppb) [2016 Data]	0 ppb	15 ppb			5.7 (0 of 52 > AL) 90th Percentile	Yes	Corrosion of customer plumbing
Organic Disinfection By-products (Indianapolis)							
Total Trihalomethanes (TTHMs)	N/A	80 ppb	61	87	61 (16 - 87) Highest Locational Running Annual Average	Yes	By-product of chlorination treatment
Haloacetic acids (HAA5)	N/A	60 ppb	42	63	42 (8.5 - 63) Highest Locational Running Annual Average	Yes	By-product of chlorination treatment
Microorganisms (Indianapolis)							
E coli	0	1	0	0	0	Yes	Human and animal fecal waste
Total Coliforms		5.0%	0.001%	0.3%	0% - 0.3%	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
Radionuclides (Indianapolis): [2016 Data]							
Combined Radium (-226 & -228)	0	5			0 - 1.7	Yes	Erosion of natural deposits
Combined Uranium	0	30			0.13 - 0.93	Yes	Erosion of natural deposits
Gross Alpha, Excl. Radon & Uranium	0	15			2.1 - 8.8	Yes	Erosion of natural deposits
Morgan County							
Disinfectant Residual:							
	MRDLG	MRDL					
Chlorine (as Cl2)	4 ppm	4 ppm	1.1	1.5	0.35 - 1.5	Yes	Water additive used to control microbes.
Copper and Lead (Morgan County)							
	MCLG	AL					
Copper (ppm) [2015 Data]	1.3 ppm	1.3 ppm			0.32 (0 of 26 > AL) 90th Percentile	Yes	Corrosion of customer plumbing