



Missouri Department of Natural Resources
2011 Annual Compliance Report
of Missouri Public Drinking Water



UV reactor at MO American Joplin. It is the first UV installation to meet LT2 requirements.

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Note from the Branch Chief

Missouri is blessed with an abundance of high-quality water supplied by its many underground aquifers and major river networks. These sources provide Missourians with water not only for drinking but for a myriad of household and other purposes. It is critical that water provided to the public be safe and abundant.

The Public Drinking Water Branch of the Missouri Department of Natural Resources has the important mission of ensuring the state's 2,780 public water systems provide safe drinking water to every resident and visitor to the state. To do this, the branch sets limits and monitors for 91 contaminants that could be found in public drinking water supplies. This report provides information on how well public water systems in Missouri are meeting the standards for providing safe drinking water.

This is the sixteenth Annual Compliance Report the Public Drinking Water Branch has produced since 1996 and covers compliance statistics for calendar year 2011. Each state produces a similar annual report on its public water systems. The reports are made available to the public and are provided to the U.S. Environmental Protection Agency for inclusion in a national report summarizing the performance of the nation's public drinking water systems.

The branch provides this report not only to comply with statutory obligations mandated by the federal Safe Drinking Water Act, but also to focus attention and provide an understanding of the importance of quality drinking water to the public.

The report shows that Missouri's water systems continued to provide safe and reliable drinking water in 2011. The Total Coliform Rule monitoring and maximum contaminant level requirements generate the most violations. This reflects the relatively high frequency of monitoring and vulnerability of water systems to bacteriological contamination. Significant progress has been made on radionuclide compliance, although several systems are still unable to meet standards. The high cost of radionuclide treatment technologies and limited disposal options make it difficult for small systems to comply. A number of systems are experiencing difficulty complying with current disinfection byproduct requirements. The department is assisting many systems tackle this very difficult issue. As the more stringent Stage 2 Disinfectants and Disinfection Byproducts Rule goes into effect in 2012, compliance will become an even more difficult issue for some systems. Compliance with Consumer Confidence Report requirements continues to be high due to increased staff efforts and assistance provided by the Missouri Rural Water Association. We continue focusing on these and other standards to ensure Missourians receive high-quality, safe drinking water.

The federal Groundwater Rule is imposing a host of new requirements on the 88 percent of Missouri Public Water Systems that use groundwater as their source. This rule continues to be challenging to both public water systems and regulators. The department has been working hard to assist affected public water systems struggling to comply with this complicated rule.

Under the new Long Term 2 Enhanced Surface Water Treatment Rule, also known as the LT2 rule, 14 water systems that use surface water for their source that will have to install additional treatment to enhance protection against possible waterborne pathogens. These 14 systems are required to provide additional treatment, after *Cryptosporidium* was found over a certain threshold in their raw water sources. Compliance dates vary based on the water system's population but all will be challenged with the additional treatment requirements.

I hope you find this report informative and useful.

A handwritten signature in black ink, appearing to read "Sturgess", written on a light-colored, textured background.

Steven W. Sturgess, Chief
Public Drinking Water Branch
Missouri Department of Natural Resources

What is a Public Water System?

A public water system is defined as a system that provides water through piping or other constructed conveyances for human consumption to at least 15 service connections, or serves an average of at least 25 people for at least 60 days each year. These are the systems that are the focus of this report. There are three types of public water systems:

Community systems include towns, water districts, subdivisions, mobile home parks and residential facilities such as nursing homes or prisons.

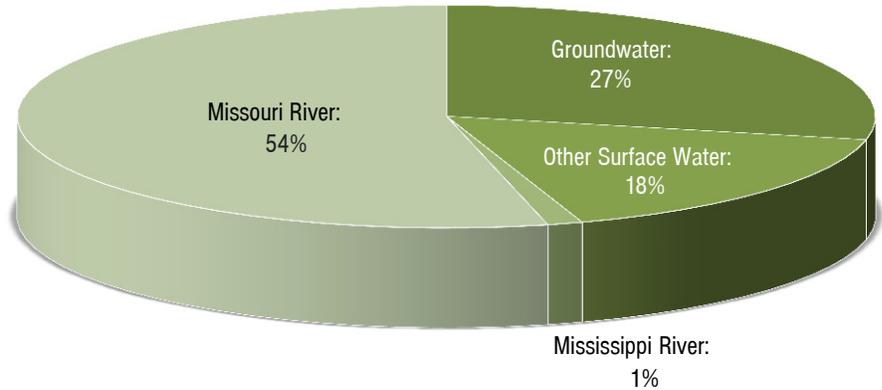
Nontransient noncommunity systems serve the same people every day, but not in a residential setting; schools and factories are good examples.

Transient noncommunity systems serve different people daily, such as restaurants, resorts and rest stops. These smaller systems are typically in rural areas where it is not feasible to hook up to a city or water district.

Requirements for construction, operation, monitoring, etc., vary among systems based on their type, size and source of water.

Water testing at systems that are not public water systems (for example, homes served by private wells) is facilitated by local and county sanitarians and the Missouri Department of Health and Senior Services, rather than the Department of Natural Resources.

Source of Water (Percent Population Served)



The Missouri Public Water System Universe

In 2011, there were 2,780 active public water systems in Missouri. Of this total, 1,470 were community, 222 were nontransient noncommunity and 1,088 were transient noncommunity systems.

The community water systems in Missouri served more than 5 million citizens in 2011. These citizens benefit from one of Missouri's most outstanding resources: its water. There is generally a large quantity of high-quality water in Missouri.

By far the largest source of drinking water for Missourians is surface water from the Missouri River. The abundant supply of water in the Missouri River and its proximity to the state's major population centers make the use of this river as a source so popular.

Groundwater is the next most used source of drinking water for Missouri's community supplies. In southern Missouri, good quality

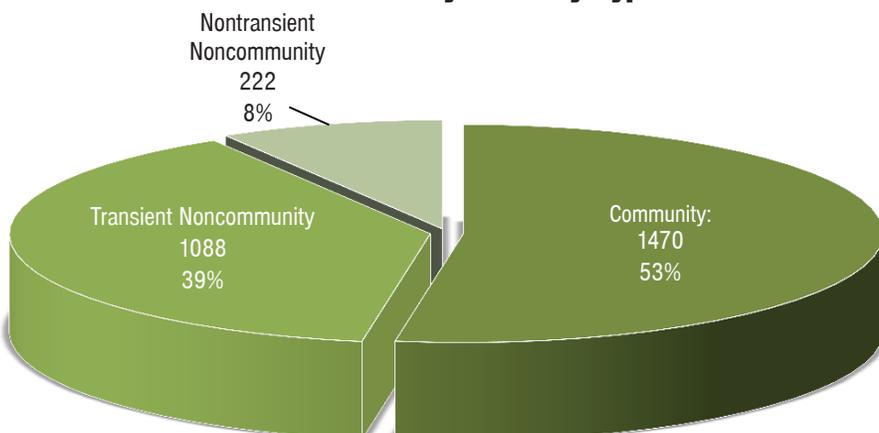
groundwater is easy to obtain and typically requires very little treatment to be used for drinking water. Some groundwater systems have the best of both worlds and use alluvial wells in valleys of the Missouri and Mississippi river system where they can get large volumes of water free of surface contaminants. Wells in the Missouri River alluvium provide groundwater to a significant population. More than half the state's population gets their drinking water from the Missouri River or its alluvial wells. The importance of this resource cannot be overstated.

Analysis of Compliance

We expect a lot from our public water systems and require testing for 91 different regulated chemicals and microbiological contaminants on a regular schedule. A system is to be applauded for performing all required testing and meeting all maximum contaminant levels, also referred to as MCLs, and treatment technique standards. When violations do occur, that often is the first identification of a problem and can be the first step toward correcting it. Many public water systems perform testing beyond what is required by the state.

The Summary of Violations table in this report counts individual violations. Each public water system has the potential to accumulate multiple violations during the year because there are multiple regulations involved and some monitoring is on a monthly schedule. For example, the monitoring requirements for the Total Coliform Rule alone create a potential for more than 30,000 violations. This puts

Public Water Systems by Type



some perspective on the violation figures shown in the Summary of Violations table and the information in the appendices. Another factor to consider is the number of systems that have violations. Many of the violations are from water systems with problems that result in multiple violations during the year. Other systems may only have one or two violations.

Appendices A through C list specific systems by county. The department uses various methods to focus on the water systems that need attention. For many years, the department used a process developed by the U.S. Environmental Protection Agency to identify significant noncompliers. State regulators were critical of the significant noncomplier process because it weighted monitoring and reporting violations as much as health-based violations. As a result, EPA developed a new Enforcement Response Policy that focuses on health-based violations. This new policy includes an Enforcement Targeting Tool that tracks systems with the most noncompliance. The Enforcement Response Policy and

Enforcement Targeting Tool identify priority systems for enforcement response, define timely and appropriate enforcement responses and clarify what constitutes a formal action.

Maximum contaminant level and treatment technique violations represent the most significant impact on the public health. These occurred at a small number of public water systems serving approximately 6.23 percent of the population.

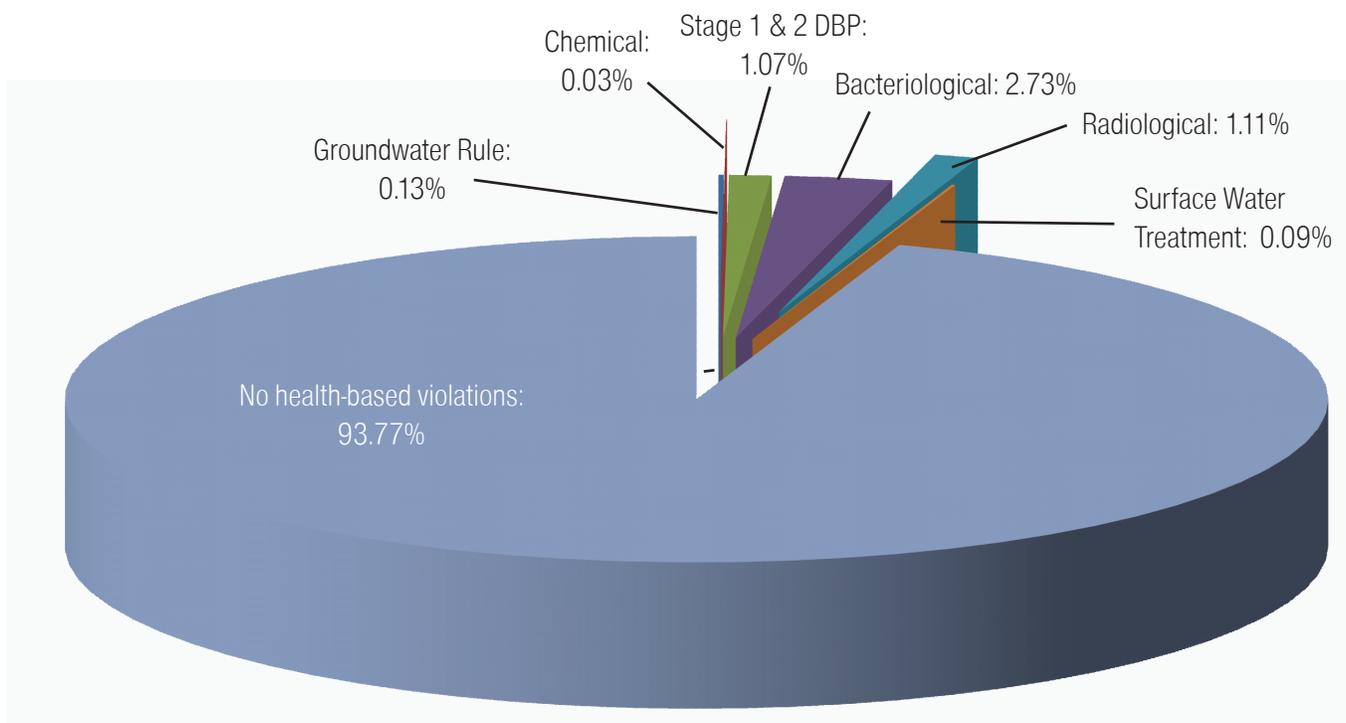
Since 1996, when the first Annual Compliance Report was produced, through 2003, Missouri has consistently met or exceeded EPA's target of serving water that meets all health-based standards to 95 percent of the population. Again in 2006, Missouri community water systems met EPA's target. The small dip below the 95 percent target in 2004 and 2005 did not represent a reduction in water quality, but is a result of more stringent drinking water standards. In 2007, this compliance measure dropped significantly because Missouri's largest water system had a treatment technique violation. The

same phenomenon happened again in 2010. Even though these events were of short duration, the entire population had to be counted in this statistic. For more information on this item, refer to the 2008 Annual Compliance Report.

EPA and the states have worked together to develop an additional compliance measure called "person-months during which community water systems provide water that meets health-based standards." This measure is intended to take into account situations where violations are of short duration. Missouri achieved 96.8 percent compliance with this measure in 2011. The national target for federal fiscal year 2011 was 95 percent.

The majority of MCL and monitoring violations in 2011 were for failure to meet the requirements of the Total Coliform Rule. Total coliform bacteria serve as an indicator that disease-causing organisms may be present. All public water systems in the state must test for this type of bacteria every month they dispense water to the public. Monitoring violations are by far

Percent Population of Community Water Systems Meeting Health-based Standards



There is overlap in that some systems violate more than one area.

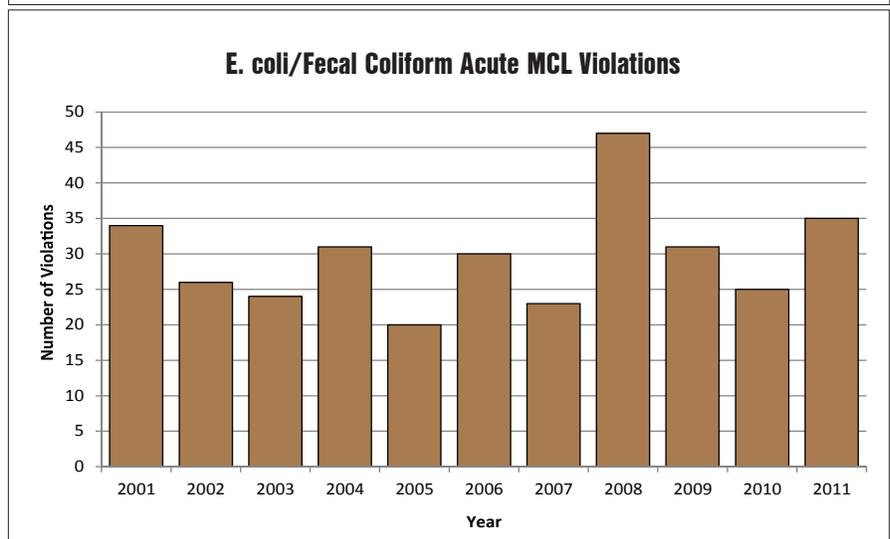
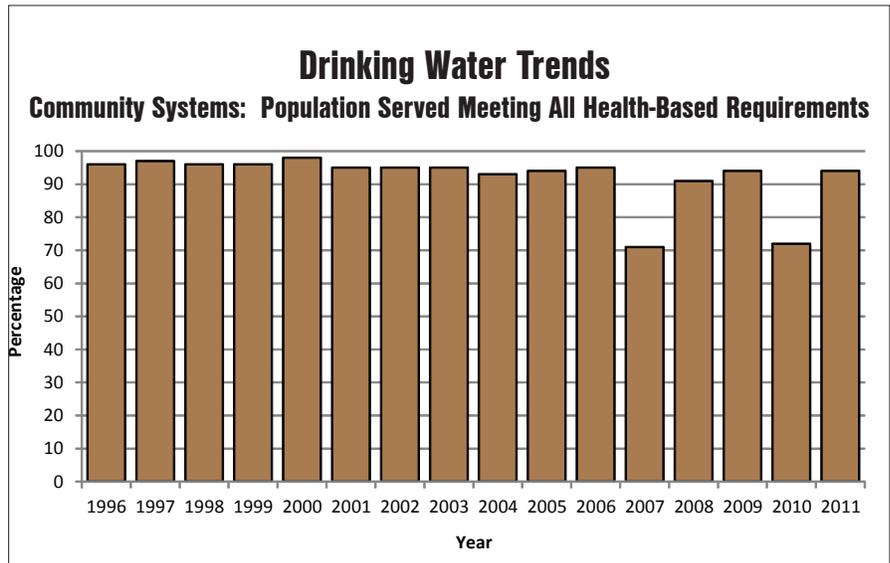
the most common violation for this rule. The department is particularly concerned when monitoring violations occur at public water systems that have a history of bacteriological contamination. Adequate testing is the only way to know for sure if the problems have been corrected or have reoccurred.

In 2011, 0.5 percent, 14 public water systems, had acute violations for fecal coliform or E. coli. (One of these systems had multiple acute MCL violations during the year, resulting in a total of 15 acute MCL violations.)

Another way to look at the number of acute MCL violations is to compare the number that actually occurred to the number possible. Since bacteriological testing is required monthly, the 2,780 water systems had more than 30,000 chances to get an E. coli MCL violation. The 15 that actually occurred represent one-tenth of 1 percent of the number possible. While these acute violations can be serious, they are rare.

Some people may be more vulnerable to waterborne illness than the general population. To educate the public on this issue, community water systems include a warning in their annual Consumer Confidence Reports stating that some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections.

The Consumer Confidence Report provides detailed information about the specific community water system, while this report does not. Consumer Confidence Reports include specifics about the water system, including the source of drinking water and the levels of naturally occurring substances in drinking water. Usually these pose no health threat and are not violations. The report must list violations of state and



federal requirements for that year. The department has made a concerted effort to provide technical assistance to small water systems through a circuit rider to help with report preparation and distribution. As a result, the overall compliance rates have been high. In 2011, 94.69 percent of Missouri's community water systems distributed their Consumer Confidence Reports properly.

Anyone can request a copy of their report from their public water system or by calling the department's Public Drinking Water Branch at 800-361-4827 or 573-751-5331.

Compliance Activities: Preserving the Quality of Drinking Water

The department works closely with violators to return them to compliance in a timely manner. This includes phone contacts, on-site inspections, meetings with owners or operators and technical assistance as needed. For the more serious violations, a Bilateral Compliance Agreement between the water system owner and the department is the tool used to move the system back into compliance. Bilateral Compliance Agreements are written agreements negotiated between and signed by the system owner and department staff. This process allows the department to determine the improvements the water system needs to make without either party having to endure the time and cost of litigation.

If a water system owner or operator violates a Bilateral Compliance Agreement, the department implements a negotiated settlement policy. Negotiated settlement agreements are more formal and enforceable than Bilateral Compliance Agreements and are reviewed and signed by staff from the Missouri Attorney General's Office. If the negotiated settlement agreement is unsuccessful, the department refers the case for legal action through the courts.

Public Drinking Water Branch staff work in conjunction with other agencies to protect public health. By serving on a committee with staff from the Department of Health and Senior Services, the two agencies identify ways to support and benefit each other's activities. One of those areas is enforcement activity against facilities, such as restaurants, that are regulated by both agencies.

The department provides training and technical assistance in an effort to prevent the occurrence of violations. Training is routinely provided to operators and owners of public water systems around the state, primarily concentrating on the

basic principles of running a water system, performing the required monitoring and preventing contamination of the system. Technical assistance in the form of phone contacts and on-site visits is also available to help water system operators avoid or correct problems. Staff in the department's regional and satellite offices carry out most of these activities.

For all violations, public water systems are required to notify the consumers they serve. The department provides all public water systems with the necessary forms and information to effectively notify the public. The method of notification varies by the violation and system type. Systems must report back to the department how the public notice was performed. Some violations, such as the confirmed detection of fecal coliform bacteria or E. coli, warrant immediate action due to the threat to public health. For such acute violations, the department requires systems to notify customers within 24 hours to boil water before consumption. Boil water orders remain in effect until the problem has been corrected and the water is safe to consume.

For More Information

Information about Missouri's public water systems can be obtained by writing to the Missouri Department of Natural Resources, Water Protection Program, Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102-0176 or calling 800-361-4827 or 573-751-5331. Information is also available on the department's website at www.dnr.mo.gov/env/wpp/dw-index.htm.

Summary of Violations Table

The following definitions apply to the Summary of Violations table.

Filtered Systems: Water systems that have installed filtration treatment [10 CSR 60-4.050].

Inorganic Contaminants: Non-carbon-based compounds such as metals, nitrates and asbestos. These contaminants are naturally-occurring in some water, but can get into water through farming, chemical manufacturing and other human activities [10 CSR 60-4.030].

Lead and Copper Rule: Lead and copper corrosion pose various health risks when ingested at any level, and can enter drinking water from household pipes and plumbing fixtures [10 CSR 60, Chapter 15]. Violations are reported for: failure to monitor; failure to install optimal corrosion control treatment or a source water treatment system that would reduce lead and copper levels in water at the tap; failure to replace lead service lines on the schedule required by the regulation; and failure to provide required public education about reducing or avoiding lead intake from drinking water.

Organic Contaminants: Carbon-based compounds, such as industrial solvents and pesticides. These contaminants generally get into water through runoff from cropland or discharge from factories [10CSR 60-4.040 and 4.100].



Transfer building at MO American Joplin.

Radionuclides: Radioactive particles that can occur naturally in water or result from human activity. Safe drinking water regulations set maximum contaminant levels on five types of radionuclides: radium-226, radium-228, uranium, gross alpha and beta particle/photon radioactivity [10 CSR 60-4.060].

Surface Water Treatment Rule:

This includes a series of rules promulgated from 1989-2009 that establish criteria under which water systems supplied by surface water sources, or groundwater sources under the direct influence of surface water, must filter and disinfect their water (Surface Water Treatment Rule, Interim Enhanced Surface Water Treatment Rule, Long Term 7

1 Enhanced Surface Water Treatment Rule, Long Term 2 Enhanced Surface Water Treatment Rule) [10 CSR 60-4.050 and 60-4.052].

Violations of the surface water treatment rules are reported for the following categories:

- Monitoring, routine/repeat (for filtered systems): Failure to carry out required tests or to report the results of those tests. A major monitoring violation for the surface water treatment rule occurs when at least 90 percent of the required samples are not taken or results are not reported during the compliance period.
- Treatment techniques (for filtered systems): Failure to properly treat the water.
- Total Coliform Rule: The Total Coliform Rule, or TCR, establishes regulations for microbiological contaminants in drinking water. These contaminants can cause a short-term health problem. If no samples are collected during the one-month compliance period, a major monitoring violation occurs. States report four categories of violations to EPA:
- Acute MCL violation: A violation where the system found fecal coliform or E. coli, potentially harmful bacteria, in its water.

- Non-acute MCL violation: A violation where the system found total coliform in samples of its water at a frequency or at a level that violates the rule. For systems collecting fewer than 40 samples per month, more than one positive sample for total coliform is a violation. For systems collecting 40 or more samples per month, more than 5 percent of the samples positive for total coliform is a violation.

- Major routine and follow-up monitoring: A violation where a system did not perform any monitoring.

- Sanitary Survey: A major monitoring violation if a system fails to collect five routine monthly samples if sanitary survey is not performed.

Maximum Contaminant Level: The highest amount of a contaminant allowed in drinking water. Maximum Contaminant Levels, or MCLs, ensure drinking water does not pose a health risk. MCLs are defined in milligrams per liter (parts per million) unless otherwise specified.

Monitoring: The department specifies which water testing methods the water systems must use and sets schedules for the frequency of testing. A water system that does not follow the department's schedule or methodology is in violation [10 CSR 60-4.010]. States must report monitoring violations that are significant as determined by the EPA Administrator, in consultation with the department. For purposes of this report, significant monitoring violations are major violations and they occur when no samples are taken or no results are reported during a compliance period.

Groundwater Rule: Applies to public water systems that serve groundwater. It ensures monitoring of groundwater sources for E. coli contamination, and relies on four strategies to address this risk: periodic sanitary surveys, triggered source water monitoring in the case of a positive sample, corrective action for a system found to have a significant deficiency or source water E. coli contamination, and compliance monitoring to ensure the treatment technology is reliable.

Treatment Techniques: A water disinfection process that EPA requires instead of a MCL for contaminants that laboratories cannot adequately measure. Failure to meet other operational and system requirements under the Surface Water Treatment and the Lead and Copper Rules have also been included in this category of violation for purposes of this report.

Violation: A failure to meet any state or federal drinking water regulation.

Organic Contaminants: Jan. 1, 2011 - Dec. 31, 2011

	MCL ¹ (mg/L)	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Organic Contaminants				*			
1,1,1-Trichloroethane	0.2					0	0
1,1,2-Trichloroethane	0.005					0	0
1,1-Dichloroethylene	0.007					0	0
1,2,4-Trichlorobenzene	0.07					0	0
1,2-DBCP	0.0002						
1,2-Dichloroethane	0.005					0	0
1,2-Dichloropropane	0.005					0	0
2,3,7,8-TCDD (Dioxin)	3x10-8						
2,4,5-TP	0.05						
2,4-D	0.07						
Acrylamide							
Alachlor	0.002						
Atrazine	0.003	1	1				
Benzene	0.005					0	0
Benzo[a]pyrene	0.0002					0	
Carbofuran	0.04					0	
Carbon tetrachloride	0.005					0	0
Chlordane	0.002					0	
cis-1,2-Dichloroethylene	0.07					0	0
Dalapon	0.2					0	
Di(2-ethylhexyl)adipate	0.4					0	
Di(2-ethylhexyl)phthalate	0.006					0	
Dichloromethane	0.005					0	0
Dinoseb	0.007					0	
Diquat	0.02					0	
Endothall	0.1					0	
Endrin	0.002					0	
Epichlorohydrin							
Ethylbenzene	0.7					0	0
Ethylene dibromide	0.00005						
Glyphosate	0.7						
Heptachlor	0.0004						
Heptachlor epoxide	0.0002						
Hexachlorobenzene							

¹ Values are in milligrams per liter (mg/L), unless otherwise specified

*Shaded areas indicate a violation is not applicable in this category

Organic Contaminants: Jan. 1, 2011 - Dec. 31, 2011

	MCL ¹ (mg/L)	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Hexachlorobenzene	0.001						
Lindane	0.0002						
Methoxychlor	0.04						
Monochlorobenzene	0.1					0	0
o-Dichlorobenzene	0.6					0	0
Oxamyl (Vydate)	0.2						
Para-Dichlorobenzene	0.075					0	0
Pentachlorophenol	0.001						
Picloram	0.5						
Simazine	0.004						
Styrene	0.1					0	0
Tetrachloroethylene	0.005	0	0			0	0
Toluene	1					0	0
Total PCB	0.0005						
Toxaphene	0.003						
Trans-1,2-Dichloroethylene	0.1					0	0
Trichloroethylene	0.005					0	0
Vinyl chloride	0.002					0	0
Xylenes (total)	10					0	0
Total trihalomethanes	0.80	48	19			0	0
Haloacetic acids	0.60	3	1			0	0
Disinfection byproducts		51	19	7	6		

¹ Values are in milligrams per liter (mg/L), unless otherwise specified

Inorganic Contaminants: Jan. 1, 2011 - Dec. 31, 2011

	MCL (mg/L)	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Inorganic Contaminants							
Antimony	0.006					0	0
Arsenic	0.010					0	0
Asbestos	7 million fibers/L						
Barium	2					0	0
Beryllium	0.004					0	0
Cadmium	0.005	2	1			0	0
Chromium	0.1					0	0
Cyanide (as free cyanide)	0.2					0	0
Fluoride	4.0	4	1			0	0
Mercury	0.002					0	0
Nitrate	10 (as nitrogen)	0	0				
Nitrite	1 (as nitrogen)						
Selenium	0.05					0	0
Thallium	0.002					0	0
Total nitrate and nitrite	10 (as nitrogen)					0	0

Radiological Contaminants: Jan. 1, 2011 - Dec. 31, 2011

	MCL ¹ (pCi/L)	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Radiological Contaminants							
Gross Alpha	15pCi/L	35	13			5	5
Radium-226 and radium-228	5 pCi/L	42	15			5	5
Gross beta	4 mrem/yr						
Subtotal		77	16 ²			10	5

Microbiological Contaminants: Jan. 1, 2011 - Dec. 31, 2011

	MCL Presence/Absence	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violations	Number of Violations	No. of Systems with Violations	Number of Violations	No. of Systems with Violations
Total Coliform Rule							
Acute MCL violation	Presence	35	32				
Non-acute MCL violation	Presence	424	421				
Major routine and follow up Monitoring						766	422
Sanitary survey ³							
Subtotal		459	421 ⁴			766	422

¹ Values are in Picocuries per liter (pCi/L), unless otherwise specified

² Some systems may have violations in multiple categories

³ Number of violations for failure to perform sanitary survey under the Total Coliform Rule.

⁴ All Systems with an acute MCL violation also had a non-acute monthly MCL violation for the same month

Surface Water Treatment Rule: Jan. 1, 2011 - Dec. 31, 2011

	MCL	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	Number of Violations	No. of Systems with Violation
Surface Water Treatment							
Filtered systems							
Monitoring, routine/repeat						1	1
Treatment techniques				6	4		
Unfiltered systems							
Monitoring, routine/repeat							
Failure to filter							
Subtotal				6	4	1	1

Lead and Copper Rule: Jan. 1, 2011 - Dec. 31, 2011

	MCL	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Lead and Copper Rule ¹							
Initial lead and copper tap monitoring and reporting						3	3
Follow-up or routine lead and copper tap monitoring and reporting						14	14
Treatment installation							
Public education						0	0
Subtotal						17	17

¹ Includes any system not up to date on lead and copper monitoring. Not comparable with Annual Compliance Report figures from 2010

Public Notification: Jan. 1, 2011 - Dec. 31, 2011

	MCL	MCL		Treatment Techniques		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Public Notification							
Consumer Confidence Reports ¹						78	78
Subtotal						434	351

¹ Violations for failure to produce and distribute the 2010 Consumer Confidence Report in 2011

Groundwater Rule: Jan. 1, 2011 - Dec. 31, 2011

	MCL	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Groundwater Rule							
Failure to treat				9	7		
Failure to address contamination				0	0		
Failure to address deficiency				16	16		
Public Notice						0	0
Sanitary Survey						0	0
Major routine and follow up monitoring						133	117
Subtotal				25	23	133	117

Appendix A - MCL Violations - Acute

I. Coliform MCL Violations - Acute

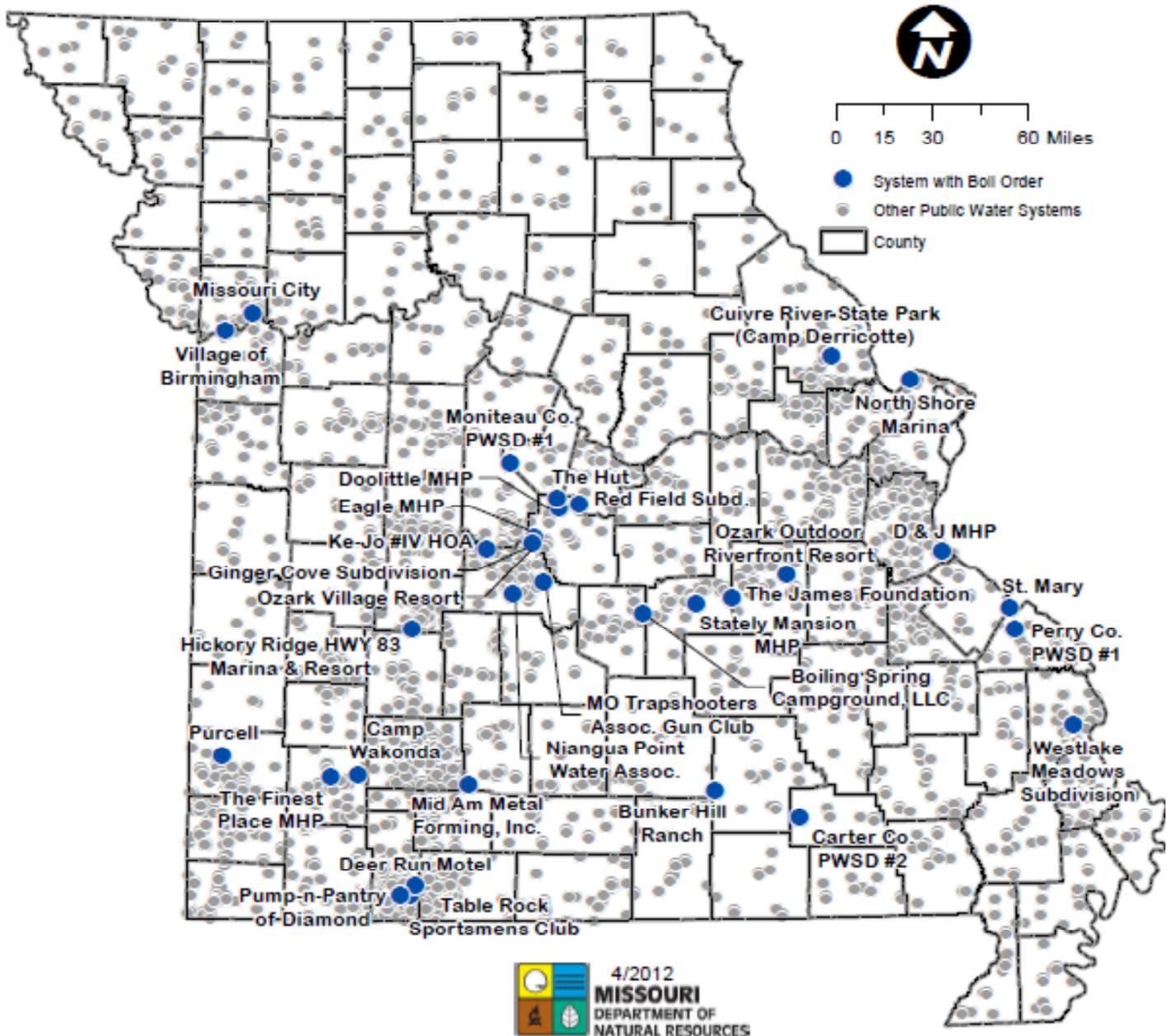
The following systems were under boil water orders due to acute MCL violations for fecal coliform or E. coli bacteria for the months listed. These acute violations also violate the standard for total coliform bacteria.

County	ID#	System Name	Month(s)	Issue	Rescind
CAMDEN	M03031323	GINGER COVE SUBDIVISION	June	6/20/2011	6/27/2011
	M05252903	KE JO #IV HOA	July	7/15/2011	7/28/2011
	M05243013	MISSOURI TRAPSHOOTERS ASSOC	October	10/21/2011	11/1/2011
	M05252622	NIANGUA POINT WATER ASSOCIATION	July	8/15/2011	
	M03190749	OZARK VILLAGE RESORT	April	4/22/2011	4/29/2011
CAPE	M04031453	WESTLAKE MEADOWS SUBDIVISION	June	6/16/2011	6/24/2011
CARTER	M04024109	CARTER CO PWSD 2	April	5/3/2011	6/15/2011
CLAY	M01010070	BIRMINGHAM VILLAGE OF	April	4/8/2011	4/12/2011
	M01010532	MISSOURI CITY	May	5/31/2011	6/6/2011
COLE	M03031301	RED FIELD SUBDIVISION	August	8/23/2011	8/26/2011
CRAWFORD	M04192729	OZARK OUTDOOR RIVERFRONT RESORT	June	7/6/2011	10/15/2011
HICKORY	M05210920	HICKORY RIDGE HWY 83 MARINA &	April	5/4/2011	5/23/2011
JASPER	M05292997	PUMP-N-PANTRY OF DIAMOND	November	12/5/2011	12/14/2011
	M05010665	PURCELL	September	10/6/2011	10/19/2011
	M05010665	PURCELL	December	12/16/2011	1/6/2012
JEFFERSON	M06048142	D & J MHP	September	9/28/2011	10/11/2011
LAWRENCE	M05248289	CAMP WAKONDA	June	6/16/2011	7/18/2011
	M05048105	THE FINEST PLACE MHP	February	2/28/2011	8/19/2011
LINCOLN	M06120055	CUIVRE RIVER STATE PARK CAMP	September	9/12/2011	9/16/2011
		DERRICOTTE			
MILLER	M03048097	DOOLITTLE MHP	July	7/11/2011	7/18/2011
	M03048243	EAGLE MHP	May	5/27/2011	6/16/2011
	M03210828	THE HUT	September	9/26/2011	1/5/2012
MONITEAU	M03024395	MONITEAU CO PWSD 1	November	11/22/2011	12/15/2011
PERRY	M04024455	PERRY CO PWSD 1	May	5/12/2011	5/14/2011
PHELPS	M03048123	STATELY MANSION MOBILE VILLA	June	7/11/2011	8/11/2011
	M03190089	THE JAMES FOUNDATION	June	7/6/2011	7/14/2011
PULASKI	M04243010	BOILING SPRING CAMPGROUND LLC	May	5/6/2011	5/18/2011
SHANNON	M04190279	BUNKER HILL RANCH	September	9/16/2011	9/27/2011
ST CHARLES	M06232941	NORTH SHORE MARINA	June	7/14/2011	7/30/2011
STE	M04010718	ST MARY	October	10/28/2011	11/22/2011
STONE	M05240075	DEER RUN MOTEL	June	6/9/2011	8/26/2011
	M05238059	TABLE ROCK SPORTSMENS CLUB	May	5/31/2011	6/9/2011
WEBSTER	M05183004	MID AM METAL FORMING INC	February	9/24/2010	1/29/2012
	M05183004	MID AM METAL FORMING INC	March	9/24/2010	1/29/2012
	M05183004	MID AM METAL FORMING INC	May	9/24/2010	1/29/2012

Note: If no "Rescind Date", the boil order was still in effect at time of printing.

2011 Boil Water Orders

Issued due to acute MCL violations of the Total Coliform Rule and the Surface Water Treatment Rule



For current boil water orders, check the department's Web page at www.dnr.mo.gov/env/wpp/boil/index.html

Appendix A - MCL Violations Non-Acute

I. Coliform MCL Violations

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

County	ID#	System Name	Month(s)
ANDREW	M01010757	ROSENDALE	November
BARRY	M05111949	TABLE ROCK BIG M MARINA	September
	M05191338	HARDMAN HOLLOW RESORT	July
	M05210631	ROADHOUSE GRILL & PUB	July
	M05231302	SHUMAKER TIRE CO INC	March, August
	M05252497	EAGLE POINT ESTATES POA	March, June
	M05272961	NEW SITE BAPTIST CHURCH	June
BENTON	M01212806	LOST ACRES (VIKINGS)	October
	M01212836	JESTERS HOUSE	December
	M01212952	FERGERSON RENTAL-LYNNS CATFISH & MORE	September
	M01272844	ABUNDANT LIFE CHRISTIAN CHURCH	October
	M01282813	SHADY OAKS TRAILER PARK	July
	M03010400	IONIA	July
	M03040761	LAKE HILLS PARK	May
	M03142486	LOST VALLEY HATCHERY	June
	M03190902	HEAD WATERS MOTEL	August, September
	M03210256	BB BAR & RESTAURANT	September
	M03210344	DARS CAFE	July
	M03242534	TRUMAN LAKE RESORT LLC	July
BOLLINGER	M04010483	MARBLE HILL SOUTH	May
	M04242884	TWIN BRIDGES PARK	June, July, October
	M04243043	CASTOR RIVER PARK	June, July, August
BUTLER	M04024070	BUTLER CO PWSD 1	July
	M04024071	BUTLER CO PWSD 2	June
CALLAWAY	M03041238	HATTON HILLS MHP	June
	M03069003	RIVERVIEW NURSING CENTER	July
CAMDEN	M03031323	GINGER COVE SUBDIVISION	June
	M03190694	EL KAY LAKE VIEW MOTEL	June, July, December
	M03190706	LAZY DAYS CONDOMINIUMS	March
	M03190720	RELAX AWAY BAY CONDOS	August
	M03190749	OZARK VILLAGE RESORT	April
	M03190783	KNOTTY PINE RESORT	July
	M03191748	RIPPLING WATERS RESORT	July
	M03198088	MICKEYLAND RESORT	August
	M03200834	PALISADES CONDO OWNERS ASSOC	June
	M03211098	54 DINER	August, October, December
	M03212536	LARRYS ON THE LAKE	December
	M03212580	THE STORAGE SHED	July, August
	M03218001	THE TRAIL HOUSE RESTAURANT	July
	M03218004	PARADISE RESTAURANT	August
	M03218226	THE DUCK	December
	M03238020	11 WEST CONDOMINIUM	June
	M03238222	TARA CONDOMINIUMS	May
	M03248239	CAMP HERITAGE	April
	M03250972	OAK POINT SUBDIVISION	October
	M03281045	NEW TRIBES MISSION INC	November
	M03292426	BARRYS	September
	M05031428	LAKE ACRES HOMEOWNERS IMPROVEMENT ASSOC	April, June, July, August
	M05193014	SKYLINE MOTEL	March

I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

County	ID#	System Name	Month(s)	
CAMDEN	M05212618	QUARTER BARREL BAR & GRILL	July	
	M05242992	CAMPING PARADISE	May	
	M05243013	MISSOURI TRAPSHOOTERS ASSOC	March, July, October	
	M05251596	COFFMAN BEND 13 WATER	May	
	M05252622	NIANGUA POINT WATER ASSOCIATION	July, September	
	M05252903	KE JO #IV HOA	June, July	
	M05252973	LEDGE STONE ESTATES HOA	July	
	M05282999	CREATIVE LEARNING DAY SCHOOL	July	
	M05301443	HYD-A-WAY CONDOMINIUMS	November	
CAPE GIRARD	M04031453	WESTLAKE MEADOWS SUBDIVISION	January, February, June	
	M04048083	PARKWOOD LAKE ESTATES	May, June, July, November	
CARTER	M04024109	CARTER CO PWSD 2	April	
CEDAR	M05010411	JERICO SPRINGS	April, October	
	M05110189	STOCKTON SOUTH HAWKER POINT PARK	July	
	M05191320	MT CARMEL INN	June	
	M05212752	ORLEANS TRAIL RESTAURANT	June	
	M05282827	VIKINGS OFFICE BAR POST 129	August	
CHRISTIAN	M05282846	AMERICAN VETERANS POST 116	August, September	
	M05010071	BILLINGS	July	
	M05010576	NIXA	June, September	
	M05036305	PIPPENVILLE & OAK PARK OWNERS ASSN	June, September	
	M05040555	CITYDEL MHP	July, August	
	M05048130	RDE WATER COMPANY	August	
	M05273003	LIFEPOINT CHURCH	January, December	
CLAY	M01010070	BIRMINGHAM VILLAGE OF	April	
	M01010532	MISSOURI CITY	May	
COLE	M03031301	RED FIELD SUBDIVISION	August	
COOPER	M03024170	COOPER CO CONSOLIDATED PWSD # 1	August	
CRAWFORD	M03202538	CUBA LAKES GOLF AND COUNTRY CLUB	February	
	M03240249	CAMP MIHASKA	May	
	M03240880	HUZZAH VALLEY STABLES INC	June	
	M04192729	OZARK OUTDOOR RIVERFRONT RESORT	June	
	M04242910	LUCKY CLOVER RIVER RESORT INC	April, June, August	
	M06010092	BOURBON	September	
	M06190795	BIRDS NEST LODGE	September	
	M06210144	MERAMEC VALLEY CAMP RESORT	June, July	
	DADE	M05110193	STOCKTON MUTTON CREEK MARINA EAST	June
	DALLAS	M05282882	MDV AUXILIARY CLUB # 99	June
M05292380		D DIAMOND TRAVEL PLAZA	September	
DENT	M04171150	DENT PHELPS ELEM SCHOOL	August	
	M04293034	W G ARD # 1 LLC	July	
DOUGLAS	M05071593	COUNTRY AIRE APARTMENTS	June	
	M05171804	MT ZION BIBLE SCHOOL	May, June	
	M05192943	LOST CABINS RESORT	July	
	M05211664	JUNCTION SUPERSTORE	May	
DUNKLIN	M04010022	ARBYRD	April	
	M04010132	CAMPBELL	August	
	M04024206	DUNKLIN CO PWSD 1	August	
	M04048245	BAKER MILLS MHP	January, June	

I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

County	ID#	System Name	Month(s)	
FRANKLIN	M06010303	GERALD	August	
	M06010708	ST CLAIR	April, October, November	
	M06010801	UNION	July, November	
	M06024211	FRANKLIN CO PWSD 1	July, August	
	M06171159	LONEDELL R XIV ELEM SCHOOL	January, May	
	M06192601	CEDAR CREEK CONFERENCE CENTER	July, August	
	M06241626	CAMP MO VAL CAMP TAMBO	May, June	
	M06292966	K KWIK KORNER	October	
GASCONADE	M03031317	LAKE NORTHWOODS UTILITY INC	April	
GREENE	M05010829	WALNUT GROVE	September	
	M05036094	GREENE HILLS COUNTRY CLUB	January	
	M05048145	SILVER BELL MOBILE HOME PARK	July	
	M05182849	JM & M INVESTMENTS	August	
	M05210110	SPRINGFIELD SKATELAND	October	
	M05218149	AMERICAN LEGION POST 676	April, October, November	
	M05240126	SPRINGFIELD KOA	September	
	M05258076	BOLTONS GENERAL STORE	August	
	M05258164	EXPRESSWAY STOP	July	
	M05272758	WILSON CREEK BAPTIST CHURCH	May	
	M05292389	KUM & GO 499	August	
	HICKORY	M05192686	NEMO BRIDGE RESORT	September
		M05210920	HICKORY RIDGE HWY 83 MARINA & RESORT	April, October, November
		M05212321	CCS WAGON WHEEL BAR & GRILL	July, August, September, November
		M05238302	FUGATE MOBILE HOME PARK	August
M05243021		BERRYLAND RV PARK & STORAGE	May, August	
HOWELL	M05252631	CAPRI ESTATES	August	
	M04292995	BULLSEYE 24	July	
IRON	M04010017	ANNAPOLIS	August	
JACKSON	M01024278	JACKSON CO PWSD 12	February	
JASPER	M05010665	PURCELL	September, December	
	M05041599	PLEASANT VALLEY MHP	September, October, November	
	M05292997	PUMP-N-PANTRY OF DIAMOND	October, November	
JEFFERSON	M06010368	HILLSBORO	April, June	
	M06024299	JEFFERSON CO PWSD 7	June	
	M06036042	FICKEN HILL SUBD	July	
	M06036061	WOODRIDGE APARTMENTS	September, October	
	M06041184	WALKER HILL MHP	April, August, October	
	M06048094	PARADISE ESTATES MHP	September, October	
	M06048142	D & J MHP	September	
	M06048147	LAUREL ACRES MHP	January, April, June, July, August, September	
	M06048148	HILLTOP MOBILE HOME ESTATES	May	
	M06048401	SYCAMORE SPRINGS TRAILER PARK	April	
	M06171184	SUNRISE R IX ELEM SCHOOL	October	
	M06180934	RIVER CEMENT COMPANY	July	
LACLEDE	M06270498	ST MARTINS UCC CHURCH	January	
	M05240034	CIRCLE J CAMPGROUND 1	September	
	M05240142	FISHING TALES RV PARK & WEAVERS TACKLE	March	
LAWRENCE	M05041314	YOUNGBERG ESTATES MHP	April	
	M05048105	THE FINEST PLACE MHP	February	
	M05218153	FRATERNAL ORDER OF EAGLE 3948	May, July, August	
	M05248289	CAMP WAKONDA	June	

I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

County	ID#	System Name	Month(s)
LINCOLN	M06031493	ROCKPORT SUBDIVISION	September
	M06036217	LAKEVIEW SUBD WATER SYSTEM	January, February, March, April, August, December
	M06120055	CUIVRE RIVER STATE PARK CAMP DERRICOTTE	July, August, September
	M06122659	CUIVRE RIVER STATE PARK CAMP SHERWOOD	July, September
	M06212332	JR DIAMONDS	November
LIVINGSTON	M02024353	LIVINGSTON CO PWSD 2	August
MADISON	M04010501	MARQUAND	October
MARIES	M03242408	TURKEY HILL RANCH BIBLE CAMP	May, October
	M04292847	CROSSROADS CONVENIENCE STORE	August
MCDONALD	M05211225	T & R SOUTHWESTERN CAFE	January, July
	M05272723	NEW LIFE FELLOWSHIP CHURCH	January
	M05272914	PATTERSON HEIGHTS BAPTIST CHURCH	September
	M05290183	KINGS C STORE	December
MILLER	M05291271	THE FILLING STATION	August
	M03010441	LAKE OZARK	September
	M03010709	ST ELIZABETH	June
	M03031381	OAK HILL FOREST SUBDIVISION	September, October
	M03048097	DOOLITTLE MHP	July, August
	M03048243	EAGLE MHP	May
	M03190813	THE RESORT AT PORT ARROWHEAD	August
	M03202344	EAGLES LANES AND BEAR CREEK VALLEY GC	October
	M03210828	THE HUT	September
	M03250943	SUMMERHAVEN CONDOMINIUM OWNERS ASSN	August
	M05212967	OLD TOWN OSAGE	August
	M05213046	COUNTY LINE FAMILY CAFE	August
	M05252674	CHULA VISTA SUBDIVISION	July
	M05292911	CEDAR JUNCTION	March
	MONITEAU	M03024395	MONITEAU CO PWSD 1
MONTGOMERY	M06010521	MIDDLETOWN	June
MORGAN	M03010047	BARNETT	October
	M03010819	VERSAILLES	December
	M03031345	OKLATERRE MOBILE HOME PARK	July
	M03031365	TIMBERLAKE MASTER ASSOCIATION INC	January
	M03190044	CAMP SABRA	August
	M03202562	ROLLING HILLS COUNTRY CLUB	August
	M03210020	FRIEDRICHS RESORT SUBD	July, August
	M03212560	LAKE HOUSE CAFE	July
	M03238276	NORTH SHORE CONDOMINIUMS	April
	M03250819	COOL VALLEY ASSOCIATION	October
	M03281196	AMERICAN VETERANS POST 108	August
	M05031589	SKYLINE SUBDIVISION	June
	M05032892	SOUTH COVE HOA	June
	M05192693	AQUA VITAE ESTATES	July, August
	M05253023	SMILEYS SUBDIVISION # 2	April, July
	M05301489	BLUE ANCHOR BAY CONDOMINIUMS	September
	NEWTON	M05048346	PARK PLACE NEOSHO MHP
	M05212716	WHITE EAGLE SHOAL CREEK PLAZA	May
	M05292852	HICKORY CREEK CORNER	August
NODAWAY	M01010046	BARNARD	June
OSAGE	M02172928	LITTLE EINSTEIN LEARNING CTR	June
	M02202792	OSAGE COUNTRY CLUB	August

I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

County	ID#	System Name	Month(s)
OZARK	M05079504	EAST WIND COMMUNITY	August
	M05191676	THUNDER BAY RESORT	June, July
	M05212896	OUTPOST/RANCH HOUSE	June, September
	M05242740	SUNBURST RIVER RANCH	August
	M05242741	RIVERSIDE CANOE RENTAL	August
PERRY	M04024455	PERRY CO PWSD 1	May
PETTIS	M01061484	SHOW ME CHRISTIAN YOUTH HOME	August
	M03048254	CRESTVIEW MHP	December
	M03190893	BUDGET HOST SUPER 7 MOTEL	October
PHELPS	M03010712	ST JAMES	August
	M03048123	STATELY MANSION MOBILE VILLA	June, September, October
	M03100011	USFS LANE SPRING RECREATION AREA	June, July
	M03100012	USFS MILL CREEK	May, June
	M03190089	THE JAMES FOUNDATION	June
	M04212742	COOKIN FROM SCRATCH	April
	M04212993	RANDYS ROADKILL BBQ & GRILL	June, July
	M04242857	LITTLE PRAIRIE BIBLE CAMP	August
	M04243048	PHEASANT ACRES RV PARK LLC	August, October
	PIKE	M02010093	BOWLING GREEN
POLK	M05032924	TURTLECREEK SUBDIVISION	August
	M05222460	BOLIVAR MUNICIPAL AIRPORT	December
	M05258125	CASES CORNER LLC	June
	M05283052	BRIGHTON ASSEMBLY OF GOD	October, November
PULASKI	M03010684	RICHLAND	June, November
	M04243010	BOILING SPRING CAMPGROUND LLC	May, June
REYNOLDS	M04100015	USFS SUTTON BLUFF REC AREA	June, July, August, September, October
	M04190878	WILDERNESS LODGE LIMITED RIVERS EDGE	July
RIPLEY	M04102223	USFS FLOAT CAMP CAMPGROUND	August
SCOTT	M04010062	BENTON	September
	M04173024	ST LAWRENCE PARISH PROPERTIES	June
SHANNON	M04171258	LIBERTY SENIOR HIGH SCHOOL	March, April
	M04190279	BUNKER HILL RANCH	September
ST CHARLES	M06112781	RIVERS PROJECT OFFICE	April, December
	M06232941	NORTH SHORE MARINA	June
	M06240106	CHEROKEE LAKES CAMP	July
	M06281285	ST PAUL KNIGHTS OF COLUMBUS HALL	May
ST FRANCOIS	M04010270	FARMINGTON	July, September, October
	M04292597	SHERRYS	January, February
STE GENEVIEVE	M04010718	ST MARY	March, April, May, October, December
	M04024543	STE GENEVIEVE CO PWSD 1 SC	June
	M04120067	HAWN STATE PARK	April
STODDARD	M04024585	STODDARD CO PWSD 5	June
STONE	M05030380	PATTERSON DUCK CLUB POA	June
	M05030870	COUNTRY TIME ESTATES	April
	M05031142	MEADOW HILLS SUBDIVISION	June
	M05031145	MELODY MANOR SUBDIVISION	January, February
	M05031233	LONG BEND SUBD	June
	M05031473	DD16 POA	August, September, November
	M05041130	CEDAR SPRINGS MHP INC	September
	M05190951	LITTLE INDIAN RESORT	September
	M05190966	CEDAR RESORT	June
	M05190983	BRIDGEPORT RESORT	May

I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

County	ID#	System Name	Month(s)	
STONE	M05191312	CALM WATERS RESORT	June	
	M05191952	STONY BROOK INN	June	
	M05212976	CAPE FAIR MARINA	June	
	M05238059	TABLE ROCK SPORTSMENS CLUB	May	
	M05238311	DOGWOOD VALLEY ESTATES	March	
	M05240075	DEER RUN MOTEL	June	
	M05240131	TABLE ROCK LAKE CAMPGROUND	April	
	M05250539	INDIAN POINT CONDOMINIUM	June	
	M05252981	JONES COVE SUBDIVISION	May	
	M05258070	STARRLITE VILLAGE 4TH ADDITION	December	
	M05258136	PARMESANS PIZZERIA	May	
	M05290227	Y 76 HANDI MART	December	
	M05292589	CROSS ROADS STORE	December	
	TANEY	M05024599	TANEY CO PWSD 1	July, September
		M05031149	FALL CREEK HEIGHTS SUBD	November
		M05036180	TANEY CO WATER LLC - VENICE	August
		M05070611	BRANSON EAST APARTMENTS	July, September
		M05070683	DEER RUN APTS	August, September, October
		M05191005	PARKVIEW LODGE	July
M05191008		VICKERY RESORT MOTEL	August	
M05211245		SCOOPS & MORE	May, July	
M05211609		TABLE ROCK INN	July	
M05240145		CLEVENGER BRANCH MEMBERS CORP	May	
M05292575		RAPID ROBERTS 121	January	
TEXAS	M04010674	RAYMONDVILLE	July, August	
VERNON	M05010725	SHELL CITY	March	
WARREN	M06036189	CEDAR GROVE VILLAGE SUBD	September	
	M06182070	FLYING J TRAVEL PLAZA	March	
WASHINGTON	M04036318	ROGUE CREEK UTILITIES	October	
	M04258547	BRI CO INC	February	
	M06010659	POTOSI	April, July, September	
	M06069096	POTOSI EAST	July, August, September, November	
	M06120173	WASHINGTON STATE PARK	November	
	M06171236	KINGSTON K 14 SCHOOL DISTRICT	October	
WAYNE	M04024637	GREENVILLE	June, July	
	M04036064	COMMUNITY WATER SYSTEM	December	
WEBSTER	M05010503	MARSHFIELD	September	
	M05048282	GASLIGHT VILLAGE MHP	September	
	M05182621	CON WAY FREIGHT	June	
	M05183004	MID AM METAL FORMING INC	February, March, April, May, June, July, August, September, October, November	
WEBSTER	M05281419	CROSSCUT HOME CENTER	April	
WRIGHT	M05218161	MOUNTAIN GROVE CHRISTIAN ACADEMY	February, May	

II. Chemical MCL Violations

County	Id#	System Name	Chemical
AUDRAIN	MO2010812	VANDALIA	TOTAL TRIHALOMETHANES (TTHM)
BATES	MO1024031	BATES CO PWSD 2	TOTAL TRIHALOMETHANES (TTHM)
CALDWELL	MO1010099	BRECKENRIDGE	TOTAL TRIHALOMETHANES (TTHM)
	MO1010342	HAMILTON	TOTAL TRIHALOMETHANES (TTHM)
CASS	MO1010225	DREXEL	ATRAZINE
	MO1010301	GARDEN CITY	TOTAL TRIHALOMETHANES (TTHM)
DAVISS	MO1036130	DAVISS CO PWSD 3	TOTAL TRIHALOMETHANES (TTHM)
DEKALB	MO1010510	MAYSVILLE	TOTAL TRIHALOMETHANES (TTHM)
GENTRY	MO1070639	MIDDLE FORK WATER CO	TOTAL TRIHALOMETHANES (TTHM)
GRUNDY	MO2010796	TRENTON MUNICIPAL UTILITIES	TOTAL TRIHALOMETHANES (TTHM)
HENRY	MO1010076	BLAIRSTOWN	TOTAL TRIHALOMETHANES (TTHM)
JEFFERSON	MO6048085	FOREST HILL MHP	CADMIUM
	MO6071352	JEFFERSON COUNTY WATER	TOTAL TRIHALOMETHANES (TTHM)
LAFAYETTE	MO1010599	ODESSA	TOTAL TRIHALOMETHANES (TTHM)
LINCOLN	MO6031217	TIMBER RIDGE ESTATES	FLUORIDE
LINN	MO2010112	BUCKLIN	TOTAL TRIHALOMETHANES (TTHM)
MARION	MO2010344	HANNIBAL	TOTAL TRIHALOMETHANES (TTHM)
MONTGOMERY	MO6010848	WELLSVILLE	TOTAL HALOACETIC ACIDS (HAA5)
	MO6010848	WELLSVILLE	TOTAL TRIHALOMETHANES (TTHM)
PIKE	MO2010093	BOWLING GREEN	TOTAL TRIHALOMETHANES (TTHM)
	MO2010479	LOUISIANA	TOTAL TRIHALOMETHANES (TTHM)
WORTH	MO1010739	SHERIDAN	TOTAL TRIHALOMETHANES (TTHM)

III. Radiological MCL Violations

County	ID#	System Name	Chemical
CAMDEN	MO3031265	BIG ISLAND WATER COMPANY	GROSS ALPHA, EXCL. RADON & U COMBINED RADIUM (-226 & -228)
CAPE GIRARDEAU	MO4031453	WESTLAKE MEADOWS SUBDIVISION	GROSS ALPHA, EXCL. RADON & U COMBINED RADIUM (-226 & -228)
IRON	MO4036256	KILLARNEY SHORES SUBD	COMBINED RADIUM (-226 & -228)
MCDONALD	MO5010449	LANAGAN	COMBINED RADIUM (-226 & -228)
	MO5010645	PINEVILLE	GROSS ALPHA, EXCL. RADON & U GROSS ALPHA, EXCL. RADON & U COMBINED RADIUM (-226 & -228)
	MO5021168	MC DONALD CO PWSD 3	GROSS ALPHA, EXCL. RADON & U COMBINED RADIUM (-226 & -228)
ST FRANCOIS	MO4010087	BONNE TERRE	COMBINED RADIUM (-226 & -228)
	MO4010270	FARMINGTON	GROSS ALPHA, EXCL. RADON & U GROSS ALPHA, EXCL. RADON & U COMBINED RADIUM (-226 & -228)
VERNON	MO4021451	PILOT KNOB RURAL WD 1 DOE RUN	COMBINED RADIUM (-226 & -228)
	MO4031206	HUNTERS RIDGE SUBD	GROSS ALPHA, EXCL. RADON & U
	MO4036059	TERRE DU LAC	GROSS ALPHA, EXCL. RADON & U COMBINED RADIUM (-226 & -228)
	MO4048064	TOWN & COUNTRY MOBILE HOME	COMBINED RADIUM (-226 & -228)
VERNON	MO4069041	FARMINGTON CORRECTIONAL	COMBINED RADIUM (-226 & -228)
	MO5010104	BRONAUGH	COMBINED RADIUM (-226 & -228)
VERNON	MO5024616	VERNON CO PWSD 1	GROSS ALPHA, EXCL. RADON & U GROSS ALPHA, EXCL. RADON & U COMBINED RADIUM (-226 & -228)
	MO4011123	MINERAL POINT	GROSS ALPHA, EXCL. RADON & U COMBINED RADIUM (-226 & -228)

IV. Surface Water Violations

The following systems violated the Surface Water Rule, Treatment Technique for Turbidity or other surface water requirements In the months or annual period Indicated

County	Id#	System Name	Period	Violation
CALDWELL	MO1010342	HAMILTON	May, June	Combined Filter Effluent Turbidity
DEKALB	MO1010510	MAYSVILLE	December	Combined Filter Effluent Turbidity
GREENE	MO5258164	EXPRESSWAY STOP	July, August, September, October	Combined Filter Effluent Turbidity
LAWRENCE	MO5048105	THE FINEST PLACE MHP	August	Combined Filter Effluent Turbidity
LINN	MO2010112	BUCKLIN	July	Combined Filter Effluent Turbidity
NEW MADRID	MO4010504	MARSTON	October	Combined Filter Effluent Turbidity
	MO4010689	RISCO	July	Combined Filter Effluent Turbidity
REYNOLDS	MO4010243	ELLINGTON	July	Combined Filter Effluent Turbidity
ST FRANCOIS	MO4240120	S F SCOUT RANCH	June, December	Combined Filter Effluent Turbidity
STODDARD	MO4010255	ESSEX	July	Combined Filter Effluent Turbidity
STONE	MO5041140	AUNTS CREEK DEV 1ST ADD	October	Combined Filter Effluent Turbidity

Appendix B

Chronic Major Monitoring Violators

The following systems had three or more major violations of the Total Coliform Rule in 2011 and have been listed on previously issued news releases for chronic monitoring violations.

County	System Name	PWS ID #	Months
BARRY	JENKINS KWIK STOP	M05292405	March, July, September
BENTON	HIDDEN VALLEY MHP	M03262156	January, February, March, April, May, June, July, August, September, October, November, December
	LAST CHANCE RESTAURANT & LOUNGE	M01212998	February, June, August, November, December
	SHADY OAKS TRAILER PARK	M01282813	March, April, October
	UN VALLEY SUBDIVISION	M03031366	January, February, March, April, May, June, July, August, September, October, November, December
	T T CAMPGROUND	M01242804	January, February, March, April, May, June, July, August, September, October, November, December
CAMDEN	COUNTRY MEADOWS ESTATES	M03041122	October, November, December
	NANTUCKET BAY	M03071339	March, April, May, June, July, August, October, November, December
	QUARTER BARREL BAR & GRILL	M05212618	March, April, May, June
CRAWFORD	RILEY SPENCE PROPERTIES NO 3	M03212550	May, June, December
DALLAS	FRATERNAL ORDER OF EAGLE 4010	M05218054	March, June, August
	WILD OAKS CAMPGROUND	M05242820	April, September, October
GASCONADE	ON THE LINE DINER	M06213044	June, July, August, September, October, November, December
GREENE	EXPRESSWAY STOP	M05258164	March, August, September
HICKORY	SHADOW LAKE GOLF COURSE	M05218044	June, July, August
LACLEDE	MOUNTAIN CREEK CAMPGROUND	M05240134	May, June
MARIES	MORELANDS CATFISH PATCH & STEAK HOUSE	M03211025	January, March, April, May, June, July, August, September
MILLER	CAMP BAGNELL	M03241749	January, May, July, August, September, October
	SUNSET MHP	M05031430	January, February, March
MONTGOMERY	DANVILLE SINCLAIR	M03291410	May, August, September, December
MORGAN	BAIT SHACK	M03198259	April, May
	INDIAN ROCK GOLF CLUB AND ESTATES	M03212386	February, March, April
	MALLARD BAY	M05202702	June, July, August, September
NEWTON	BELIEVERS FAITH FELLOWSHIP	M05272989	January, February, March, April
	MODERN DAY VET AUX 114	M05212860	June, October, November
OZARK	OUTPOST/RANCH HOUSE	M05212896	August, October, November
	RUSTY RAIL PUB	M05212897	January, February
PETTIS	BUDGET HOST SUPER 7 MOTEL	M03190893	January, February, July, August, September
POLK	VALLEY VIEW ACRES	M05041146	April, August, September, October, November, December, August, September
ST CLAIR	KAPPAWS KIDS	M05170218	January, February, April, May
ST LOUIS	WHISPERING OAKS HEALTH CARE	M06069015	February, April, May, June, July
STONE	CEDAR HAVEN RESORT	M05191918	June, July, September
	CROSS ROADS STORE	M05292589	February, July, September
	SPANKS	M05211325	February, March, December
	WHITE OAK STATION # 6	M05258122	January, June
TANEY	EAST FORK SUBDIVISION	M05031597	February, March, April, May, June, July, August, September, October, November, December
	GDM INVESTMENT PROJECT	M05182954	January, February, March, April, May, June, August, September, November
	SAVANNAH PLACE THIRD ADDITION	M05021379	April, May, September
	TANEY COUNTY MEMORIAL POST 5168	M05218299	January, February, March, April, May, June

Appendix B (Continued)

Chronic Major Monitoring Violators

The following systems had three or more major violations of the Total Coliform Rule in 2011 and have been listed on previously issued news releases for chronic monitoring violations.

County	System Name	PWS ID #	Months
TEXAS	EL RANCHO TRUCK PLAZA	MO4211081	April, July, October
	MIDWEST TRUCK STOP	MO4218523	April, July, October
WASHINGTON	FOURCHE VALLEY GOLF CLUB	MO4201034	February, June
WEBSTER	EAGLE STOP	MO5258117	March, April, September
WRIGHT	MANES CAFE	MO5212760	April, May, December

Appendix C

Major Repeat Monitoring Violations

The following systems had major repeat monitoring violations for the months listed. A major repeat monitoring violation occurs when a routine sample tests positive for total coliform bacteria and that system fails to submit any follow-up, or repeat, samples as required.

County	ID#	System Name	Month(s)
CAMDEN	MO3212554	NEIGHBORS LANDING	June
	MO3218001	THE TRAIL HOUSE RESTAURANT	August
	MO5212618	QUARTER BARREL BAR & GRILL	May
	MO5212746	BRIANS CAFE & PUB	January
	MO5252622	NIANGUA POINT WATER ASSOCIATION	April
CHRISTIAN	MO5036305	PIPPENVILLE & OAK PARK OWNERS ASSN	November
	MO5228141	CAMP FINBROOKE	August
DOUGLAS	MO5212925	HITCHING POST BAR & GRILL	October
GASCONADE	MO6213044	ON THE LINE DINER	November
GREENE	MO5036192	WILDEN HEIGHTS HOA	September
	MO5218048	DEALERS AUTO AUCTION	December
	MO5218149	AMERICAN LEGION POST 676	September
HICKORY	MO5021292	PWSD 2 OF HICKORY CO	July
	MO5212321	CCS WAGON WHEEL BAR & GRILL	June
	MO5243021	BERRYLAND RV PARK & STORAGE	March
JEFFERSON	MO6036161	FAIRWAYS WATER AND SEWER ASSOCIATION	November
	MO6292691	PRO STOP	August
LACLEDE	MO5192285	MUNGER MOSS MOTEL	July
MILLER	MO5292911	CEDAR JUNCTION	February
MORGAN	MO3218268	OSAGE RIVER BAR & GRILL	June
OZARK	MO5292331	ROYS STORE	August
ST LOUIS	MO6069092	WYMAN	January
STONE	MO5031142	MEADOW HILLS SUBDIVISION	September
	MO5031233	LONG BEND SUBD	July
	MO5031335	CLEAR COVE LANDING	June
	MO5031473	DD16 POA	October
	MO5031511	MORNINGSIDE DEVELOPMENT	June
	MO5036071	WOOD RIDGE ESTATES	September
	MO5191934	SLEEPY HOLLOW RESORT	September
	MO5252981	JONES COVE SUBDIVISION	March, July, August
TANEY	MO5024599	TANEY CO PWSD 1	February
WRIGHT	MO5172799	MOUNTAIN GROVE MENNONITE CHURCH & SCHOOL	January
	MO5218161	MOUNTAIN GROVE CHRISTIAN ACADEMY	January, June



MISSOURI
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