

**The 2008 Annual Report  
on Violations of the U.S. Safe Drinking Water Act  
in the State of Florida**

In accordance with the Safe Drinking Water Act (SDWA) Amendments of 1996, this summary has been compiled to reflect violations of national primary drinking water regulations by public water systems in Florida.

The SDWA allows states to seek EPA approval to administer their own public water supervision program. Most states, including Florida, have this approval. To gain this approval, Florida adopted drinking water regulations that are at least as stringent as the federal regulations and has demonstrated that it can enforce the program requirements. These regulations can be found in the Florida Administrative Code, Chapters 62-550, 62-555, and 62-560. The state rules, forms, drinking water inventory, and reports can be found at [www.dep.state.fl.us/water/drinkingwater](http://www.dep.state.fl.us/water/drinkingwater).

The violations enumerated below occurred in the calendar year 2008, which is the 1st year in the 3-year 2008-2010 monitoring cycle.

**Violation Tables**

**Total Coliforms**

The most numerous type of violation in Florida is the failure to monitor for bacteriological contamination (total coliforms) on time. There are 5,734 water systems in Florida. Approximately half are required to monitor monthly, the other half are required to sample quarterly. The number of samples required varies from 2 to 400 each quarter or month, depending upon population, creating over 50,000 opportunities for violations in one year.

Below are the 3 types of violations: (1) acute (presence of fecal coliform or E. coli) MCL violations, (2) non-acute (presence of total coliform in more than 5% of the samples) MCL violations, and (3) major monitoring (failure to take any samples on time, or failure to take any repeat samples).

	MCL	MCL # of Violations	MCL # of Systems	Signif. Monitoring Reporting # of Violations	Signif. Monitoring Reporting # of Violations
Acute MCL violation	Presence	6	6		
Non-acute MCL violation	Presence	201	181		
Major routine and follow up monitoring				435	335
<b>Subtotal</b>		207	187	435	335

## Inorganic Contaminants

These compounds are naturally-occurring in some water, but can also get into water through farming, chemical manufacturing, and other human activities.

Inorganics are routinely monitored every 3 years except that nitrate, which poses an acute risk to health, is monitored annually. Systems are required to increase their nitrate monitoring frequency to quarterly if they exceed  $\frac{1}{2}$  the MCL during routine monitoring. For the rest of the inorganics, quarterly monitoring is not required unless 100% of the MCL is exceeded.

Surface water systems are the exception to the frequencies given above. They monitor annually instead of every 3 years, and quarterly for nitrates even if  $< \frac{1}{2}$  the MCL.

	MCL (mg/L)	MCL # of Violations	MCL # of Systems	Signif. Monitoring Reporting # of Violations	Signif. Monitoring Reporting # of Systems
Antimony	0.006	0	0	0	0
Arsenic	0.05	13	6	0	0
Asbestos	7 million fibers /liter/10 mmeters long	0	0	0	0
Barium	2	0	0	0	0
Beryllium	0.004	0	0	0	0
Cadmium	0.005	0	0	1	1
Chromium	0.1	0	0	0	0
Cyanide (as free cyanide)	0.2	0	0	0	0
Fluoride	4.0	0	0	0	0
Mercury	0.002	0	0	0	0
Nitrate	10 (as Nitrogen)	9	5	93	93
Nitrite	1 (as Nitrogen)	3	3	0	0
Selenium	0.05	0	0	0	0
Thallium	0.002	0	0	0	0
Lead	0.015	2	1	1	1
<b>Subtotal</b>		27	15	95	95

## Organic Contaminants

This category of carbon-based compounds includes 2 groups which Florida refers to as the VOCs and the SOCs. These organics also are routinely monitored every 3 years.

	MCL (mg/L)	MCL # of Violations	MCL # of Systems	Signif. Monitoring Reporting # of Violations	Signif. Monitoring Reporting # of Systems
1,1,1-Trichloroethane	.2	0	0	1	1
1,1,2-Trichloroethane	.005	0	0	1	1
1,1-Dichloroethylene	.007	0	0	1	1
1,2,4-Trichlorobenzene	.07	0	0	1	1
1,2-Dibromo-3-chloropropane (DBCP)	.0002	0	0	0	0
1,2-Dichloroethane	.005	1	1	1	1
1,2-Dichloropropane	.005	0	0	1	1
2,3,7,8-TCDD (Dioxin)	$3 \times 10^{-8}$	0	0	0	0
2,4,5-TP	.05	0	0	0	0
2,4-D	.07	0	0	0	0
Alachlor	.002	0	0	0	0
Atrazine	.003	0	0	0	0
Benzene	.005	0	0	1	1
Benzo[a]pyrene	.0002	0	0	0	0
Carbofuran	.04	0	0	0	0
Carbon tetrachloride	.005	0	0	1	1
Chlordane	.002	0	0	0	0
cis-1,2-Dichloroethylene	.07	0	0	1	1
Dalapon	.2	0	0	0	0
Di(2-ethylhexyl)adipate	.4	0	0	0	0
Di(2-ethylhexyl)phthalate	.006	5	2	0	0
Dichloromethane	.005	0	0	1	1
Dinoseb	.007	0	0	0	0
Diquat	.02	0	0	0	0
Endothall	.1	0	0	0	0
Endrin	.002	0	0	0	0
Ethylbenzene	.7	0	0	1	1
Ethylene dibromide	.00005	5	2	1	1
Glyphosate	.7	0	0	0	0
Heptachlor	.0004	0	0	0	0
Heptachlor epoxide	.0002	0	0	0	0
Hexachlorobenzene	.001	0	0	0	0
Hexachlorocyclopentadiene	.05	0	0	0	0
Lindane	.0002	0	0	0	0
Methoxychlor	.04	0	0	0	0
Monochlorobenzene	.1	0	0	1	1

	MCL (mg/L)	MCL # of Violations	MCL # of Systems	Signif. Monitoring Reporting # of Violations	Signif. Monitoring Reporting # of Systems
o-Dichlorobenzene	.6	0	0	1	1
Oxamyl (Vydate)	.2	0	0	0	0
para-Dichlorobenzene	.075	0	0	1	1
Pentachlorophenol	.001	0	0	0	0
Picloram	.5	0	0	0	0
Simazine	.004	0	0	0	0
Styrene	.1	0	0	1	1
Tetrachloroethylene	.005	0	0	1	1
Toluene	1	0	0	1	1
Total polychlorinated biphenyls	.0005	0	0	0	0
Toxaphene	.003	0	0	0	0
trans-1,2-Dichloroethylene	.1	0	0	1	1
Trichloroethylene	.005	0	0	1	1
Vinyl chloride	.002	0	0	1	1
Xylenes (total)	10	0	0	1	1
<b>Subtotal</b>		11	5	22	22

### Disinfection By-Products

Disinfection By-Products, DBPs, occur as a result of organic matter reacting with the disinfection chemicals present in drinking water. Most systems are required to sample for DBPs quarterly.

	MCL (mg/L)	MCL # of Violations	MCL # of Systems	Signif. Monitoring Reporting # of Violations	Signif. Monitoring Reporting # of Systems
Total trihalomethanes	.08	210	84	37	37
Total haloacetic acids	.06	174	64	39	39
<b>Subtotal</b>		384	148	76	76

### Radionuclide Contaminants

Radioactive particles can occur naturally or as a result of human activity. As with the organics, the monitoring requirement is mostly a 3-year one in Florida.

	MCL (mg/L)	MCL # of Violations	MCL # of Systems	Signif. Monitoring Reporting # of Violations	Signif. Monitoring Reporting # of Systems
Gross alpha	15 pCi/l	1	1	1	1
Radium-226/228	5 pCi/l	0	0	2	2

	MCL (mg/L)	MCL # of Violations	MCL # of Systems	Signif. Monitoring Reporting # of Violations	Signif. Monitoring Reporting # of Systems
Gross beta	4 mrem/yr	0	0	0	0
Uranium	30 pCi/l	0	0	1	1
Subtotal		1	1	4	4

### Lead & Copper

These violations occurred if a water system didn't conduct their initial monitoring (new systems) or if old systems did not conduct their monitoring. The numbers below are for 2008 and do not include violations from prior years.

	Treatment Technique # of Violations	Treatment Technique # of Systems	Signif. Monitoring Reporting # of Violations	Signif. Monitoring Reporting # of Systems
Initial lead and copper tap M/R			8	6
Follow-up or routine lead and copper tap M/R			72	63
Treatment installation	0	0	0	0
Public education			1	1
Subtotal	0	0	81	70

### Surface Water Treatment

Florida has 23 surface water (includes UDI) systems.

	Treatment Technique # of Violations	Treatment Technique # of Systems	Signif. Monitoring Reporting # of Violations	Signif. Monitoring Reporting # of Systems
SWTR	0	0	0	0

### Variances and Exemptions

Florida did not issue any variances or exemptions that would be subject to compliance monitoring.

### Consumer Confidence Reports

These are systems who received violations for not submitting their consumer confidence reports either at all, on time, or who had major problems with the content of the report.

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Total number of Systems: 5,734

Total number of Systems in Violation: 958

Total number of Violations: 1352