

# COLORADO SAFE DRINKING WATER PROGRAM CALENDAR YEAR 2012 ANNUAL COMPLIANCE REPORT

JULY 1, 2013

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Colorado Department  
of Public Health  
and Environment

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# Introduction

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The United States Environmental Protection Agency (EPA) established the Public Water System Supervision (PWSS) Program under the authority of the 1974 Safe Drinking Water Act (SDWA). Under the SDWA and the 1986 Amendments, EPA sets national limits on contaminant levels in drinking water to ensure that the water is safe for human consumption. These limits are known as Maximum Contaminant Levels (MCLs). For some regulations EPA establishes treatment techniques (TTs) in lieu of MCLs. Standards were also set on how often public water systems (PWSs) monitor their water for contaminants and report the sample results. Generally, the larger the population served by a water system, the more frequent the monitoring and reporting (M&R) requirements. In addition, EPA requires select PWSs to monitor for unregulated contaminants to provide data for future regulatory development. The 1996 Amendments to the SDWA require public notification to include a clear and understandable explanation of the nature of each violation, its potential adverse health effects, steps that the PWS is undertaking to correct the violation, and the possibility of alternative water supplies during the violation. The Colorado Department of Public Health and Environment's (CDPHE) Safe Drinking Water Program (SDWP) implements the SDWA, with amendments, pursuant to the Colorado Primary Drinking Water Regulations (CPDWR) for the State of Colorado.

The Annual Compliance Report (ACR) is intended to provide a total annual representation of the numbers of violations. Violations fall into 1 of 4 categories:

- Health-Based
  1. Maximum Contaminant Level (MCL)
  2. Treatment Technique (TT)
- Non-Health-Based
  3. Monitoring and/or Reporting (M&R)
  4. Public Notice (PN)

This report was prepared by CDPHE's SDWP to meet the EPA's reporting requirements and is updated on a yearly basis. This report is available to the public upon request.

# Definitions

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- Public Water System (PWS): Provides water via 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. There are 3 types of PWSs:
  - Community (e.g. cities, or towns)
  - Non-Transient, Non-Community (e.g. schools, or factories)
  - Transient, Non-Community systems (e.g. restaurants, rest stops, or parks)
- Health-Based: Potential short-term or long-term health risks.
  - Maximum Contaminant Level (MCL): The highest level of a contaminant allowed in drinking water. Note: Under the Lead and Copper Rule, MCLs were not established. For this rule, “action levels” rather than MCLs define the levels at which a public water system must take action to reduce the concentration of lead and/or copper.
  - Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant (added for the treatment of water) allowed in drinking water. MRDLs are enforceable in the same manner as MCLs.
  - Treatment Techniques (TT): Unacceptable levels, in lieu of a MCL, for selected water characteristics or a failure to correct an identified issue. Turbidity, for example, which measures the cloudiness of water.
- Non-Health-Based: No health risks or health risks are unknown.
  - Monitoring and Reporting (M&R): To monitor, test, and report for water characteristics (e.g. contaminants) present in drinking water. All minor and major violations are included.
  - Public Notice (PN): A requirement for the PWS to notify their customers of any and all violations. PN requirements take into account the seriousness of the violation (or situation) and any potential adverse health effects that may be involved.
- Variance: A departure from a primary drinking water regulation if the characteristics of the raw water sources available to the PWS do not allow the system to meet the MCL.
- Exemption: Temporarily relieves a PWS of its obligation to comply with an MCL, TT, or both, due to compelling factors (which may include economic factors).

# National Primary Drinking Water Regulations

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The Safe Drinking Water Act, promulgated in 1974, is the federal law that regulates the quality of drinking water. The SDWA sets standards for drinking water quality and stipulates the monitoring requirements for PWSs. The following regulations have been promulgated under the SDWA:

- **Chemical Phase Rule**: Provide public health protection through the reduction of chronic risk (e.g. cancer, organ damage, etc.) from the exposure of:
  - Inorganic Chemicals (IOCs)
  - Nitrate and Nitrite (NOX)
  - Synthetic Organic Chemicals (SOCs)
  - Volatile Organic Chemicals (VOCs)
  - Radionuclides (RADs)
- **Consumer Confidence Report (CCR)**: An annual drinking water quality report distributed by PWSs to their customers by July 1<sup>st</sup>. The report contains information regarding sources used (i.e. rivers, lakes, reservoirs, etc.), detected contaminants, violations, and educational information.
- **Microbial, Disinfectants, and Disinfection Byproducts (MICRO, DIS, and DBPs)**: In general, drinking water must be disinfected to inactivate microbial pathogens (e.g. *E. coli*, salmonella, etc.). To protect against potential microbial contamination, PWSs add disinfectants such as chlorine. However, disinfectants can react with naturally occurring material in the source water and form byproducts, which may pose adverse health risks. PWSs must carefully maintain a balance between addressing potential microbial contamination and byproduct formation. The following rules address this issue:
  - **Groundwater Rule (GWR)**: The purpose of the GWR is to provide increased protection against microbial pathogens in PWSs that utilize groundwater sources.
  - **Stage 1 and Stage 2 Disinfectant and Disinfection Byproduct Rules (DBPs)**: The purpose of these rules is to reduce exposure to disinfection byproducts for customers of PWSs that add a disinfectant to the drinking water during any part of the treatment process.
  - **Surface Water Treatment Rules (SWTRs)**: The purpose of the SWTRs is to prevent waterborne diseases caused by viruses, *Giardia*, and *Cryptosporidium*. The rules require surface water systems to filter and disinfect their water to reduce the occurrence of microbial contamination.
  - **Total Coliform Rule (TCR)**: Provide public health protection by maintaining the integrity of the distribution system and requiring public water systems to monitor for the presence of microbial contamination.
- **Lead and Copper Rule (LCR)**: Protect public health by minimizing the public's exposure to lead and copper.
- **Public Notice Rule (PN)**: Require PWSs to notify their customers of any drinking water violations or situations that may pose an adverse health risk.

# Violations During the Calendar Year 2012

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## Calendar Year 2012 Overview

The number of PWSs in the state changes on a day by day basis. This is due to seasonal operations, new PWSs opening, existing PWSs closing, and changes to the population being served. Table 1 displays a typical number of systems, on any one day, by population and system type.

*Table 1. Number of PWSs by System Type and Population*

Population	Water System Type			Total
	Community	Non-Transient, Non-Community	Transient, Non-Community	
25-500	503	147	892	1542
501-3,300	209	24	80	313
3,301-10,000	77	6	6	89
10,001-100,000	74	0	0	74
>100,000	9	0	0	9
<b>Total</b>	872	177	978	2027

Violations are based on data compiled in April 2013 from Colorado’s production SDWIS/State database. If a violation: (1) was unresolved as of January 1, 2012, or (2) occurred in calendar year 2012 it was included. M&R violations for PWSs that sample less frequently than annually will be reported in the third, sixth, or ninth year of a compliance cycle. Calendar year 2012 was the second year in a compliance cycle. Table 2 summarizes the number of violations and the number of systems by each drinking water rule and violation type and tables 3 – 14 provide further details for each of the drinking water rules.

Appendix A identifies the public water systems that were in violation of maximum contaminant levels and/or treatment technique requirements in calendar year 2012. The final column indicates if the violation was resolved.

## Summary of All Violations

- 85 systems in violation of at least one of the MCLs
- 25 systems in violation of at least one of the TTs
- 450 systems failed to monitor/report for at least one of the rules
- 6 failed to notify their customers

Table 2. Summary by Rule and Violation Type

Group	Maximum Contaminant Level Violations		Monitoring & Reporting Violations		Public/State Notification Violations		Treatment Technique Violations	
	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
<b>Consumer Confidence (CCR) Totals:</b>	-	-	34	32	-	-	-	-
<b>Disinfectants (DIS) &amp; Disinfection Byproducts (DBPs) Totals:</b>	87	14	127	86	-	-	2	1
<b>Ground Water (GW) Totals:</b>	-	-	19	18	-	-	8	8
<b>Inorganics (IOCs) Totals:</b>	32	4	45	10	-	-	-	-
<b>Lead and Copper (LCR) Totals:</b>	-	-	78	72	-	-	-	-
<b>Microorganisms (MICRO) Totals:</b>	32	28	330	225	-	-	-	-
<b>Nitrogen (NOX) Totals:</b>	71	12	141	120	-	-	-	-
<b>Public Notice (PN) Totals:</b>	-	-	-	-	6	6	-	-
<b>Radionuclides (RADs) Totals:</b>	306	30	20	8	-	-	-	-
<b>Surface Water (SW) Totals:</b>	-	-	106	52	-	-	28	16
<b>Synthetic Organics (SOCs) Totals:</b>	-	-	145	14	-	-	-	-
<b>Volatile Organics (VOCs) Totals:</b>	-	-	378	18	-	-	-	-
<b>Total:</b>	528	85	1423	450	6	6	38	25

## Inorganic Chemical Violations (not including Nitrogen Compounds and Radionuclides)

- Community and Non-Transient, Non-Community PWSs are required to comply
- 4 systems in violation of at least one of the MCLs
- 10 systems failed to monitor/report for at least one of the contaminants

Table 3. Summary of Inorganic Chemicals

Inorganics (IOCs)				
Contaminant	Maximum Contaminant Level Violations		Monitoring & Reporting Violations	
Name	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
ANTIMONY, TOTAL	-	-	3	3
ARSENIC	8	2	7	6
BARIUM	-	-	3	3
BERYLLIUM, TOTAL	-	-	3	3
CADMIUM	-	-	3	3
CHROMIUM	-	-	3	3
FLUORIDE	24	2	8	7
MERCURY	-	-	3	3
NICKEL	-	-	3	3
SELENIUM	-	-	3	3
SODIUM	-	-	3	3
THALLIUM, TOTAL	-	-	3	3
<b>Inorganics (IOCs) Totals:</b>	32	4	45	10

## Nitrogen Compound Violations

- All PWSs are required to comply
- 12 systems in violation of the Nitrate MCL
- 120 systems failed to monitor/report for either Nitrate or Nitrite

Table 4. Summary of Nitrogen Compounds

Nitrogen (NOX)				
Contaminant	Maximum Contaminant Level Violations		Monitoring & Reporting Violations	
Name	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
NITRATE	71	12	132	117
NITRITE	-	-	9	9
<b>Nitrogen (NOX) Totals:</b>	71	12	141	120



## Radionuclide Violations

- Community PWSs are required to comply
- 30 systems in violation of at least one of the MCLs
- 8 systems failed to monitor/report for at least one of the contaminants

Table 5. Summary of Radionuclides

Radionuclides (RADs)				
Contaminant Name	Maximum Contaminant Level Violations		Monitoring & Reporting Violations	
	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
COMBINED RADIUM (-226 & -228)	159	20	7	5
COMBINED URANIUM	89	10	8	6
GROSS ALPHA, EXCL. RADON & U	58	10	5	3
<b>Radionuclides (RADs) Totals:</b>	306	30	20	8

## Volatile Organic Chemical Violations

- Community and Non-Transient, Non-Community PWSs are required to comply
- 0 systems in violation of at least one of the MCLs
- 18 systems failed to monitor/report for at least one of the contaminants

Table 6. Summary of Volatile Organic Chemicals

Volatile Organics (VOCs)				
Contaminant Name	Maximum Contaminant Level Violations		Monitoring & Reporting Violations	
	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
1,1,1-TRICHLOROETHANE	-	-	18	18
1,1,2-TRICHLOROETHANE	-	-	18	18
1,1-DICHLOROETHYLENE	-	-	18	18
1,2,4-TRICHLOROBENZENE	-	-	18	18
1,2-DICHLOROETHANE	-	-	18	18
1,2-DICHLOROPROPANE	-	-	18	18
BENZENE	-	-	18	18
CARBON TETRACHLORIDE	-	-	18	18
CHLOROETHYLENE	-	-	18	18
CIS-1,2-DICHLOROETHYLENE	-	-	18	18
DICHLOROMETHANE	-	-	18	18
ETHYLBENZENE	-	-	18	18
O-DICHLOROETHYLENE	-	-	18	18
P-DICHLOROETHYLENE	-	-	18	18
STYRENE	-	-	18	18
TETRACHLOROETHYLENE	-	-	18	18
TOLUENE	-	-	18	18
TRANS-1,2-DICHLOROETHYLENE	-	-	18	18
TRICHLOROETHYLENE	-	-	18	18
VINYL CHLORIDE	-	-	18	18
XYLENES, TOTAL	-	-	18	18
<b>Volatile Organics (VOCs) Totals:</b>	-	-	378	18

## Synthetic Organic Chemical Violations

- Community and Non-Transient, Non-Community PWSs are required to comply
- 0 systems in violation of at least one of the MCLs
- 14 systems failed to monitor/report for at least one of the contaminants

Table 7. Summary of Synthetic Organic Chemicals

Synthetic Organics (SOCs)				
Contaminant	Maximum Contaminant Level Violations		Monitoring & Reporting Violations	
	Name	# of Violations	# of Water Systems with Violations	# of Violations
1,2-DIBROMO-3-CHLOROPROPANE	-	-	4	4
2,4,5-TP	-	-	4	4
2,4-D	-	-	4	4
ALDICARB	-	-	4	4
ALDICARB SULFONE	-	-	4	4
ALDICARB SULFOXIDE	-	-	4	4
ATRAZINE	-	-	4	4
BENZO(A)PYRENE	-	-	5	5
BHC-GAMMA	-	-	5	5
CARBOFURAN	-	-	4	4
CHLORDANE	-	-	5	5
DALAPON	-	-	4	4
DI(2-ETHYLHEXYL) ADIPATE	-	-	5	5
DI(2-ETHYLHEXYL) PHTHALATE	-	-	6	6
DINOSEB	-	-	4	4
DIQUAT	-	-	4	4
ENDOTHALL	-	-	4	4
ENDRIN	-	-	5	5
ETHYLENE DIBROMIDE	-	-	4	4
GLYPHOSATE	-	-	6	4
HEPTACHLOR	-	-	5	5
HEPTACHLOR EPOXIDE	-	-	5	5
HEXACHLOROBENZENE	-	-	5	5
HEXACHLOROCYCLOPENTADIENE	-	-	5	5
LASSO	-	-	4	4
METHOXYCHLOR	-	-	5	5
OXAMYL	-	-	4	4
PENTACHLOROPHENOL	-	-	5	5
PICLORAM	-	-	4	4
SIMAZINE	-	-	4	4
TOTAL POLYCHLORINATED BIPHENYLS (PCB)	-	-	5	5
TOXAPHENE	-	-	5	5
<b>Synthetic Organics (SOCs) Totals:</b>	-	-	145	14

## Consumer Confidence Report (CCR) Rule Violations

- Community PWSs are required to comply
- 32 PWSs in violation for failing to report to their customers

Table 8. Summary of the Consumer Confidence Report Rule

Consumer Confidence (CCR)									
Violation		Maximum Contaminant Level Violations		Monitoring & Reporting Violations		Public/State Notification Violations		Treatment Technique Violations	
Type	Name	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
71 - CCR REPORT	CONSUMER CONFIDENCE RULE	-	-	34	32	-	-	-	-
Consumer Confidence (CCR) Totals:		-	-	34	32	-	-	-	-

## Disinfectants & Disinfection Byproducts Rule Violations

- Community and Non-Transient, Non-Community PWSs are required to comply
- 14 systems in violation of at least one of the MCLs
- 1 systems in violation with a TT for inadequate Total Organic Carbon removal
- 86 systems failed to monitor/report for at least one of the contaminants

Table 9. Summary of Disinfectants and Disinfection Byproducts

Disinfectants (DIS) & Disinfection Byproducts (DBPs)									
Violation		Maximum Contaminant Level Violations		Monitoring & Reporting Violations		Public/State Notification Violations		Treatment Technique Violations	
Type	Name	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
02 - MCL, AVERAGE	TOTAL HALOACETIC ACIDS (HAA5)	32	7	-	-	-	-	-	-
	TTHM	55	12	-	-	-	-	-	-
46 - INADEQUATE DBP PRECURSOR REMOVAL	CARBON, TOTAL	-	-	-	-	-	-	2	1
27 - MONITORING, ROUTINE (DBP), MAJOR	CARBON, TOTAL	-	-	5	3	-	-	-	-
	CHLORINE	-	-	91	72	-	-	-	-
	CHLORITE	-	-	1	1	-	-	-	-
	TOTAL HALOACETIC ACIDS (HAA5)	-	-	15	14	-	-	-	-
27 - MONITORING, ROUTINE (DBP), MINOR	TTHM	-	-	14	13	-	-	-	-
	CHLORINE	-	-	1	1	-	-	-	-
Disinfectants (DIS) & Disinfection Byproducts (DBPs) Totals:		87	14	127	86	-	-	2	1

## Groundwater Rule Violations

- PWSs with a groundwater source not treated to surface water standards are required to comply
- 8 systems in violation for failing to address one or more field discovered significant deficiency
- 18 systems failed to monitor/report their source water for *E. Coli*

Table 10. Summary of the Groundwater Rule

Ground Water (GW)									
Violation		Maximum Contaminant Level Violations		Monitoring & Reporting Violations		Public/State Notification Violations		Treatment Technique Violations	
Type	Name	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
45 - FAILURE ADDRESS DEFICIENCY (GWR)	GROUNDWATER RULE	-	-	-	-	-	-	8	8
34 - MONITORING, SOURCE (GWR), MAJOR	E. COLI	-	-	19	18	-	-	-	-
<b>Ground Water (GW) Totals:</b>		-	-	19	18	-	-	8	8

## Lead and Copper Rule Violations

- Community and Non-Transient, Non-Community PWSs are required to comply
- 72 systems failed to monitor/report

Table 11. Summary of Lead and Copper

Lead and Copper (LCR)									
Violation		Maximum Contaminant Level Violations		Monitoring & Reporting Violations		Public/State Notification Violations		Treatment Technique Violations	
Type	Name	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
51 - INITIAL TAP SAMPLING (LCR)	LEAD & COPPER RULE	-	-	2	2	-	-	-	-
52 - FOLLOW-UP OR ROUTINE TAP M/R (LCR)	LEAD & COPPER RULE	-	-	68	65	-	-	-	-
53 - WATER QUALITY PARAMETER M/R (LCR)	LEAD & COPPER RULE	-	-	1	1	-	-	-	-
57 - OCCT/SOWT RECOMMENDATION/STUDY (LCR)	LEAD & COPPER RULE	-	-	7	7	-	-	-	-
<b>Lead and Copper (LCR) Totals:</b>		-	-	78	72	-	-	-	-

## Microorganisms (Total Coliform & *E. coli*) Violations

- All PWSs are required to comply
- 28 systems in violation with at least one of the MCLs. 5 systems were potential immediate health risks and public notification was required within 24 hours of the problem being identified. This may have included a boil or bottled water order with increased monitoring.
- 225 systems failed to monitor/report for total coliform

Table 12. Summary of Microorganisms

Microorganisms (MICRO)									
Violation		Maximum Contaminant Level Violations		Monitoring & Reporting Violations		Public/State Notification Violations		Treatment Technique Violations	
Type	Name	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
21 - MCL (TCR), ACUTE	COLIFORM (TCR)	5	5	-	-	-	-	-	-
22 - MCL (TCR), MONTHLY	COLIFORM (TCR)	27	24	-	-	-	-	-	-
23 - MONITORING (TCR), ROUTINE MAJOR	COLIFORM (TCR)	-	-	279	189	-	-	-	-
24 - MONITORING (TCR), ROUTINE MINOR	COLIFORM (TCR)	-	-	44	36	-	-	-	-
25 - MONITORING (TCR), REPEAT MAJOR	COLIFORM (TCR)	-	-	6	6	-	-	-	-
26 - MONITORING (TCR), REPEAT MINOR	COLIFORM (TCR)	-	-	1	1	-	-	-	-
<b>Microorganisms (MICRO) Totals:</b>		32	28	330	225	-	-	-	-

## Public Notice Rule Violations

- All PWSs that incurred a violation or posed an adverse health risk are required to comply
- 6 systems failed to provide public notice to their customers

Table 13. Summary of the Public Notice Rule

Public Notice (PN)									
Violation		Maximum Contaminant Level Violations		Monitoring & Reporting Violations		Public/State Notification Violations		Treatment Technique Violations	
Type	Name	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
75 - PUBLIC NOTICE RULE LINKED TO VIOLATION	PUBLIC NOTICE	-	-	-	-	4	4	-	-
76 - PUBLIC NOTICE RULE NOT LINKED VIOLATION	PUBLIC NOTICE	-	-	-	-	2	2	-	-
<b>Public Notice (PN) Totals:</b>		-	-	-	-	6	6	-	-

## Surface Water Treatment Rule Violations

- Surface Water and Groundwater–Under–the–Direct–Influence–of–Surface–Water PWSs are required to comply
- 16 systems in violation for either inadequate filtration resulting in high turbidity (cloudiness) of the water, inadequate disinfection, or failure to filter.
- 52 systems failed to monitor/report for either turbidity or chlorine disinfectant residual.

Table 14. Summary of the Surface Water Treatment Rule

Surface Water (SW)									
Violation		Maximum Contaminant Level Violations		Monitoring & Reporting Violations		Public/State Notification Violations		Treatment Technique Violations	
Type	Name	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations	# of Violations	# of Water Systems with Violations
41 - RES DISINFECT CONCENTRATION (SWTR)	CHLORINE	-	-	-	-	-	-	20	10
42 - FAILURE TO FILTER (SWTR)	SWTR	-	-	-	-	-	-	5	5
43 - SINGLE COMB FLTR EFFLUENT (IESWTR/LT1)	TURBIDITY	-	-	-	-	-	-	1	1
44 - MONTHLY COMB FLTR EFFLUENT (IESWTR/LT1)	TURBIDITY	-	-	-	-	-	-	2	2
36 - MONITORING, RTN/RPT MAJOR (SWTR-FILTER)	CHLORINE	-	-	71	42	-	-	-	-
36 - MONITORING, RTN/RPT MINOR (SWTR-FILTER)	CHLORINE	-	-	6	6	-	-	-	-
38 - MONITORING, ROUTINE (IESWTR/LT1), MAJOR	TURBIDITY	-	-	15	6	-	-	-	-
38 - MONITORING, ROUTINE (IESWTR/LT1), MINOR	TURBIDITY	-	-	14	9	-	-	-	-
<b>Surface Water (SW) Totals:</b>		-	-	106	52	-	-	28	16

## Variations and Exemptions

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For the calendar year 2012, Colorado's Safe Drinking Water Program did not issue any variations or exemptions to any public water system.

## Report Availability and Contact Information

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The 2012 summary report may be obtained by writing to:

WQCD – Drinking Water CAS  
ATTN: Annual Compliance Report  
4300 Cherry Creek Drive South  
Denver, CO 80246-1530

In addition, this summary report has been posted on the Water Quality Control Division's Website at [www.colorado.gov/cdphe/dw](http://www.colorado.gov/cdphe/dw).

For further information concerning this report, or with specific violations associated with public water systems, you may contact Phillip Stanwood with the Safe Drinking Water Compliance Assurance Section at (303) 692-3502 or by email at [Phillip.Stanwood@state.co.us](mailto:Phillip.Stanwood@state.co.us).

## Appendix A: PWSs with Health-Based Violations

PWS ID	Water System Name	Violation Type	Contaminant Name	Resolved as of 12/31/2012?
CO0253103	Alpine Accents	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0214100	Alpine Lodge Dinner Rest And Cbn	Maximum Contaminant Level	COLIFORM (TCR)	Yes
CO0160050	Alpine Village Llc	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0126117	Antelope Hills Assoc	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0111100	Antonito Town Of	Treatment Technique	GROUNDWATER RULE	No
CO0135143	Big Elk Meadows Wa	Maximum Contaminant Level	TOTAL HALOACETIC ACIDS (HAA5)	Yes
			TTHM	Yes
CO0215202	Bowie Mine No2	Maximum Contaminant Level	TOTAL HALOACETIC ACIDS (HAA5)	No
			TTHM	No
CO0101030	Brighton Mhp	Maximum Contaminant Level	NITRATE	No
CO0138001	Buffalo Hills Campground	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0121080	Camelot Property Owners Assoc	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0221560	Camp La Foret	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0145090	Cheraw Town Of	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0221205	Cheyenne Mtn Air Force Station Cmafs	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0139180	Clifton Wd	Treatment Technique	CHLORINE	No
CO0233300	Climax Climax Mine	Treatment Technique	TURBIDITY	No
CO0262466	Club La Maravilla	Maximum Contaminant Level	NITRATE	No
CO0151200	Colorado City Md	Treatment Technique	TURBIDITY	Yes
			CHLORINE	Yes
CO0111300	Conejos Ws	Treatment Technique	GROUNDWATER RULE	No
CO0126188	Crested Butte Town Of	Maximum Contaminant Level	TOTAL HALOACETIC ACIDS (HAA5)	Yes
CO0262211	Djr Well Service Inc	Treatment Technique	GROUNDWATER RULE	No
CO0235221	Dripping Springs Bed And Breakfast Inn	Treatment Technique	SWTR	No
CO0234480	Durango La Plata Airport	Maximum Contaminant Level	TTHM	Yes
CO0119234	Eagle River Village Mhp	Treatment Technique	CHLORINE	No
CO0119233	Eagle Town Of	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0145120	East End Wa	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0135233	East Larimer County Wd	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0107246	Eldorado Artesian Spring Inc	Treatment Technique	GROUNDWATER RULE	No
CO0103045	Englewood City Of	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0145150	Eureka Wc	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	No
			COMBINED RADIUM (-226 & -228)	No
CO0145180	Fayette Wc	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No



PWS ID	Water System Name	Violation Type	Contaminant Name	Resolved as of 12/31/2012?
CO0207139	Flatirons Baptist Church	Treatment Technique	CHLORINE	No
CO0160175	Florissant Wsd	Treatment Technique	CHLORINE	No
CO0262284	Fourway Baptist Church	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0101060	Galamb's Mobile Home And Rv Park	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0139220	Gateway Canyons Ws	Maximum Contaminant Level	TTHM	Yes
CO0263299	Gaytan Ws	Maximum Contaminant Level	NITRATE	Yes
CO0135315	Glacier View Meadows Wsa	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	Yes
			COMBINED URANIUM	Yes
CO0126709	Golden Eagle Wc	Treatment Technique	CARBON, TOTAL	No
CO0322305	Hayden Creek Cg	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0235038	Hermit Park Open Space	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0130045	Hidden Valley Mutual Wc	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	No
			COMBINED URANIUM	No
			COMBINED RADIUM (-226 & -228)	No
CO0207343	Highlands Presbyterian Camp	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0145330	Holbrook Center Soft Wa	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0115352	Hotchkiss Town Of	Maximum Contaminant Level	TOTAL HALOACETIC ACIDS (HAA5)	Yes
			TTHM	Yes
CO0128400	Huajatolla Valley Estates Inc	Treatment Technique	CHLORINE	No
CO0162359	Hudson Town Of	Maximum Contaminant Level	TTHM	No
CO0263003	Idalia School	Maximum Contaminant Level	NITRATE	Yes
CO0325165	Idlewild Cg	Treatment Technique	GROUNDWATER RULE	No
CO0235386	Inn Of Glen Haven	Treatment Technique	GROUNDWATER RULE	No
		Maximum Contaminant Level	COLIFORM (TCR)	No
CO0109011	Kit Carson Town Of	Maximum Contaminant Level	COMBINED URANIUM	No
CO0238006	Kuskies Cafe	Treatment Technique	GROUNDWATER RULE	No
CO0134530	Lake Durango Wa	Treatment Technique	TURBIDITY	No
CO0235476	Livermore Elem	Maximum Contaminant Level	NITRATE	No
CO0150800	May Valley Wa	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	No
			COMBINED RADIUM (-226 & -228)	No
CO0138025	Merino Town Of	Maximum Contaminant Level	COMBINED URANIUM	No
CO0121475	Monument Town Of	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	Yes
CO0151350	Mountain Shadows Mobile Estates	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0130095	Mountain View Village	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0130100	Mountain Wsd	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	No
			COMBINED URANIUM	No
CO0135538	Newell Warnock Wa	Maximum Contaminant Level	TOTAL HALOACETIC ACIDS (HAA5)	Yes
			TTHM	Yes

PWS ID	Water System Name	Violation Type	Contaminant Name	Resolved as of 12/31/2012?
CO0145630	North Holbrook Wc	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0154566	Oak Creek Town Of	Maximum Contaminant Level	TOTAL HALOACETIC ACIDS (HAA5)	No
CO0123601	Panoramic Mesa Subd	Maximum Contaminant Level	TTHM	Yes
CO0130115	Park Wc Wonderview	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	No
CO0225733	Parshall Inn The	Maximum Contaminant Level	NITRATE	No
CO0145540	Patterson Valley Wc	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	No
			COMBINED RADIUM (-226 & -228)	No
CO0238605	Peetz Table Wind Energy Farm	Maximum Contaminant Level	ARSENIC	No
CO0138030	Peetz Town Of	Treatment Technique	GROUNDWATER RULE	No
CO0211700	Rainbow Trout Ranch	Treatment Technique	SWTR	No
			CHLORINE	No
CO0202666	Rakhra Mushroom Farm	Maximum Contaminant Level	ARSENIC	No
CO0238425	Ramada Inn Logan Inn	Maximum Contaminant Level	NITRATE	No
CO0118665	Ravenna Md	Maximum Contaminant Level	TOTAL HALOACETIC ACIDS (HAA5)	Yes
			TTHM	Yes
CO0235677	Red Feather Mountain Library District	Treatment Technique	CHLORINE	No
CO0101675	Riverdale Peaks Ii Md	Maximum Contaminant Level	TTHM	Yes
CO0160450	Rosewood Hills Property Hoa	Maximum Contaminant Level	FLUORIDE	No
CO0112900	San Luis Wsd	Maximum Contaminant Level	COLIFORM (TCR)	Yes
CO0107702	San Souci Mhp	Treatment Technique	SWTR	No
CO0131800	Sheridan Lake Wc	Maximum Contaminant Level	COMBINED URANIUM	No
CO0335145	Sleeping Elephant Cg	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0153718	South Fork Heights Apartments	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0145690	South Swink Wc	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	No
			COMBINED RADIUM (-226 & -228)	No
CO0138045	Sterling City Of	Maximum Contaminant Level	TTHM	No
			COMBINED URANIUM	No
CO0236700	Stonewall Shopping Bag	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0115726	Stucker Mesa Domestic Wc	Treatment Technique	SWTR	No
		Maximum Contaminant Level	COLIFORM (TCR)	No
CO0123500	Sun Meadow Estates	Maximum Contaminant Level	TTHM	No
			COMBINED URANIUM	No
CO0239725	Sunset Lake Summer Home Owners	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0145720	Swink Town Of	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0134810	Tall Pines Village	Treatment Technique	SWTR	No
CO0235177	Trails End For Girls	Treatment Technique	CHLORINE	No
CO0121841	Turkey Canon Ranch Wd	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	No

PWS ID	Water System Name	Violation Type	Contaminant Name	Resolved as of 12/31/2012?
			COMBINED URANIUM	No
CO0254200	Twenty Mile Coal Co	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0105700	Two Buttes Town Of	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0108925	Ute Heights Community Ws	Maximum Contaminant Level	FLUORIDE	No
CO0223800	Valley Investment Properties	Maximum Contaminant Level	NITRATE	No
CO0145750	Valley Wc	Maximum Contaminant Level	GROSS ALPHA, EXCL. RADON & U	No
			COMBINED RADIUM (-226 & -228)	No
CO0105800	Vilas Town Of	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0145780	Vroman Wc	Maximum Contaminant Level	COMBINED RADIUM (-226 & -228)	No
CO0258003	Wagon Wheel Conoco Cafe	Maximum Contaminant Level	NITRATE	Yes
CO0162833	Wattenburg Improvement Assoc	Maximum Contaminant Level	NITRATE	No
CO0144032	Wayward Wind Mhp Llc	Maximum Contaminant Level	NITRATE	No
			COMBINED URANIUM	No
CO0135290	West Fort Collins Wd	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0333896	White Star Valley Loop	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0144035	Wiggins Town Of	Maximum Contaminant Level	NITRATE	No
CO0160950	Woodland West Wua	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0261003	Woodlin School	Treatment Technique	CHLORINE	No
CO0241866	Yampa Valley Golf Assoc	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0208960	Young Life Trail West Lodge	Maximum Contaminant Level	COLIFORM (TCR)	No
CO0224917	Youth With A Mission Eagle Rock	Maximum Contaminant Level	COLIFORM (TCR)	No