



STATE OF WASHINGTON
DEPARTMENT OF HEALTH
OFFICE OF DRINKING WATER

PO Box 47822 • Olympia, Washington 98504-7822
Tel: 360-236-3100 • Fax: 360-236-2253 • TDD Relay Service: 1-800-833-6388

June 24, 2015

Dear Ms. Chandler:

Enclosed is our *2014 Violations of National Primary Drinking Water Regulations in Washington State* annual report. This report summarizes water quality, monitoring, or reporting violations that occurred in Washington State last year. We reported these violations of national primary drinking water regulations to the EPA electronically on a quarterly basis, as they occurred.

This year our compliance team met with EPA Region 10 quarterly to review priority systems identified on EPA's Enforcement Tracking Tool (ETT). In this review, we identified several historical data reporting errors, which we corrected. We are also linking more violations to formal enforcement actions so we reported these violations as addressed in the ETT system.

If you have questions about this report, please call me at 360-236-3110, or John Aden, Compliance Lead, at 360-236-3157.

Sincerely,

Clark Halvorson
Director

Enclosure

CC: Marie Jennings, EPA Region 10
Maryanne Guichard, Department of Health

2014 Violations of National Primary Drinking Water Regulations in Washington State

Washington's 19th Annual Report to the U.S. Environmental Protection Agency

July 2015



Washington State Department of Health
Office of Drinking Water
P.O. Box 47822
Olympia, WA 98504-7822
360-236-3100

The Washington State Department of Health Office of Drinking Water prepared this report to comply with the requirements of the federal Safe Drinking Water Act. The report lists water quality violations, monitoring or reporting requirements, and related enforcement activities that occurred in 2014. Each quarter we submit data to the Safe Drinking Water Information System (SDWIS/FED), an automated database the U.S. Environmental Protection Agency (EPA) maintains. We based this annual report on data retrieved from SDWIS/FED.

Our mission is to protect the health of the citizens of Washington State by ensuring safe and reliable drinking water. We accomplish our mission by helping communities address the drinking water challenges they face now and in the future. We provide education and technical assistance to water systems, and use appropriate enforcement tools when they are out of compliance with safe drinking water requirements. While we are concerned about any drinking water violation, we prioritize and focus our compliance efforts on the highest public health risks, consistent with EPA's Enforcement Response Policy.

Federal regulations define a *public water system* as a system that provides water via piping or other constructed conveyances for human consumption to at least 15 service connections or an average of at least 25 people for at least 60 days each year. In Washington, we call these systems "Group A public water systems."

There are three types of Group A systems¹:

- Community (such as a city, town, or homeowners association)
- Nontransient noncommunity (such as schools or businesses)
- Transient noncommunity (such as rest stops or parks).

Washington has 4,087 Group A public water systems subject to federal requirements. Just over 77% of those systems had no reported violations. Of the systems that did have violations, about half were very small water systems that serve fewer than 100 people. These systems generally lack sufficient capacity to meet the requirements of running a public water system. We provide assistance and funding to help these systems build capacity, collaborate with another entity to manage and operate their system, or consolidate with a larger more capable system. When that fails, we take appropriate enforcement action.

¹ See Attachment A for a full description of water system types.

Summary of Violations

Coliform: Violations decreased by 14 percent from 2013.

Consumer Confidence Report: By the end of 2014, 96% of the community systems required to submit annual reports had done so.

Chemical Contaminant Group: Chemical monitoring covers four major chemical contaminant groups: inorganic chemicals, synthetic organic chemicals, volatile organic chemicals, and radionuclides. We did not include monitoring violations for radionuclides in this report.

In 2014, the only maximum contaminant level (MCL) violations for chemicals involved arsenic, nitrate, and radionuclides. Together, these violations affected 32 water systems serving about 13,000 people. There were 27 systems with nitrate MCL violations, 4 systems with arsenic MCL violations, and one system with a radionuclide violation. Together, these systems account for less than 1 percent of Washington's regulated water systems and affect less than 1 percent of the population that gets its water from regulated systems.

Ninety-five percent of systems were in compliance with chemical monitoring requirements in 2014.

Surface Water Treatment Rule: In Washington, about 210 regulated water systems rely on at least one permanent surface water source, one groundwater source under the direct influence of surface water (GWI) source, or one permanent intertie with a system that uses surface water or GWI. In 2014, almost 96% of these systems had no treatment technique violation (TTV). The 9 systems reporting TTVs serve about 384,000 people, or about 6 percent of the population served by regulated water systems in the state.

Lead and Copper: In 2014, only one small system had a monitoring violation. We reported no treatment technique violations in 2014.

Disinfection Byproducts: While we track and maintain water system compliance information for disinfection byproducts, we did not report any data electronically to EPA for 2014.

Public notification: Our regional offices check and track this information; however, it isn't available electronically and we did not include it in this report.

Report Terms

Maximum Contaminant Level (MCLs)

MCLs are the national limits on contaminant levels in drinking water EPA sets to ensure that the water is safe for human consumption.

Maximum Residual Disinfectant Level (MRDLs)

MRDLs are the national limits EPA sets on residual disinfectant levels to reduce the risk of exposure to disinfection byproducts in drinking water. Disinfectant byproducts can form when public water systems add chemical disinfectant for primary or residual treatment.

Treatment Techniques

For some regulations, the EPA establishes treatment techniques instead of an MCL to control unacceptable levels of contaminants. For example, there are treatment techniques for viruses, some bacteria, and turbidity. We issue a treatment technique violation when a water system fails to treat a drinking water source properly.

Monitoring

A public water system must monitor and verify that the levels of contaminants present in the water do not exceed the MCL. A monitoring violation occurs when a system fails to test its water as required, or fails to report test results to us correctly.

Significant Monitoring Violations

This report includes significant monitoring violations that occurred in 2014. With rare exceptions, a significant monitoring violation occurs when a system takes no samples or reports no results during a compliance period.

Consumer Notification (the Consumer Confidence Report)

Every community water system must deliver a brief annual water quality report to its customers. This report must include educational material and provide information on the system's source water, the levels of any detected contaminants, and compliance with drinking water regulations.

Significant Consumer Notification Violations

For this report, a significant public notification violation means a community water system completely failed to provide its customers the required annual water quality report.

Variances and Exemptions

We issued no variances or exemptions in Washington.

Attachments

- Attachment A: Water system definitions
- Attachment B: Violations reported to EPA
- Attachment C: Summary of violations reported to EPA
- Attachment D: Systems with MCL and treatment technique violations in 2014

Note: We continue to work with EPA Region 10 to correct errors in the federal database. The overall numbers displayed in the above attachments represent the corrected information for 2014.

Accessing This Report

Washington's *Annual Violations Report* is online at
<http://www.doh.wa.gov/CommunityandEnvironment/DrinkingWater/RegulationandCompliance/Enforcement/EPAViolationReports.aspx>

You can also request a copy at:

Department of Health
Office of Drinking Water
P.O. Box 47822
Olympia, Washington 98504-7822
1-800-521-0323

Attachment A: Water System Definitions

Public water system (PWS): Any system providing piped water for human consumption, including any collection, treatment, storage, or distribution facilities under control of the purveyor and used primarily in connection with the system. This definition excludes a system serving only one single-family residence and a system with four or fewer connections all of which serve residences on the same farm,

Group A water system: A public water system serving 15 or more connections or 25 or more people per day for 60 or more days per year and subject to the federal Safe Drinking Water Act.

Community water system: A Group A system with 15 or more service connections used by residents for 180 or more days within a calendar year regardless of the number of people, or regularly serving 25 or more residents for 180 or more days within the calendar year regardless of the number of service connections.

Noncommunity water system: A Group A system serving 25 or more nonresidents per day for 60 or more days per year, or 15 or more connections, or 25 or more residents between 60 and 180 days per year.

Nontransient noncommunity (NTNC) water system: A Group A noncommunity system serving 25 or more of the same nonresidents per day for 180 days or more per year.

Transient noncommunity (TNC) water system: A Group A noncommunity system that serves 15 or more connections in use less than 180 days per year, or 25 or more different nonresidents for 60 or more days per year, or 25 or more of the same nonresidents for 60 to 180 days per year, or 25 or more residents for 60 to 180 days per year.

Group B water system: A public water system that serves fewer than 15 connections and fewer than 25 people for 60 or more days per year, or fewer than 15 connections and any number of people for less than 60 days per year. *Note: This report doesn't include Group B systems. They are subject to Washington State Board of Health requirements, but not federal requirements.*

Attachment B: Violations Reported to EPA

Violations for 2014								
Violations Category	MCL		Treatment Technique		Significant Monitoring		Consumer ** Notification	
	Violations	Systems	Violations	Systems	Violations	Systems	Violations	Systems
Chemical Contaminant Group*	67	32			784	212		
Total Coliform Rule	24	23			554	378		
Surface Water Treatment Rule			36	9	12	5		
Lead and Copper Rule			0	0	1	1		
Disinfection Byproducts	NR	NR	NR	NR	NR	NR		
Consumer Notification Violation							429	429
Public Notice							NR	NR

Totals	
Total Number of Systems in Violation***	930
Total Number of Violations	1,907

NR = Not Reported

* **Chemical Monitoring:** All of the MCL violations reported for the chemical contaminant group in 2014 were for arsenic (27%), nitrate (72%), or radionuclide (1%).

** **Consumer Confidence Reports (CCRs):** This report covers information for 2013. CCRs cover data on the previous year and are due to customers annually by July 1.

*** Although a PWS may be out of compliance with more than one MCL or monitoring requirement, we counted that system only once when calculating total of number systems in violation.

Key to Abbreviations for Attachments C and D

Attachment C

MCL Maximum Contaminant Level
NR Not Reported
PWS Public Water System

Attachment D

ID# Public Water System Identification Number

NAME Water System Name

TYPE

CWS Community Water System
NTNC Nontransient Noncommunity Water System
TNC Transient Noncommunity Water System

SRC Source of Drinking Water

GW Groundwater
SW Surface water

POP Population served, includes residential and nonresidential

VIOL TYPE

Arsenic MCL Arsenic Maximum Contaminant Level Violation
Coliform MCL Coliform Maximum Contaminant Level Violation
Fluoride MCL Fluoride Maximum Contaminant Level Violation
Nitrate MCL Nitrate Maximum Contaminant Level Violation
SWTR TTV Filtered Surface Water Treatment Technique Violation

COMMENTS

Under BCA The system signed a Bilateral Compliance Agreement with us
Under NOC We directed the system to comply with a Notice of Correction.
RTC Returned to compliance.
EPA U.S. Environmental Protection Agency

Attachment C: Summary of Violations Reported to EPA

SAFE DRINKING WATER INFORMATION SYSTEM - ANNUAL PWS COMPLIANCE REPORT

Compliance period: January 1, 2014, through December 31, 2014

STATE SUMMARY

Rule group	Chemical Sub-group	MCLs		Monitoring		Treatment Technique		Consumer Notification	
		# of violations	# PWSs in violation	# of violations	# PWSs in violation	# of violations	# PWSs in violation	# of violations	# PWSs in violation
CHEM	Volatile Organic	0	0	340	15	-	-	-	-
	Synthetic Organic	0	0	210	12	-	-	-	-
	Inorganic	66	31	234	184	-	-	-	-
	Radionuclides	1	1	NR	NR	-	-	-	-
CHEM Total		67	32	784	211	-	-	-	-
Total Coliform Rule		24	23	554	378	-	-	-	-
Surface Water Treatment Rule		-	-	12	5	36	9	-	-
Lead and Copper Rule		-	-	1	1	0	0	-	-
Disinfection Byproducts		NR	NR	NR	NR	NR	NR	-	-
Consumer Confidence Reports		-	-	-	-	-	-	429	429
Public Notification		-	-	-	-	-	-	NR	NR
Grand Total		91	55	1,351	595	36	9	429	429

Grand total number of violations (MCL, Monitoring, Treatment Technique, and Consumer Notification): 1,907

Grand total number of systems in violation (MCL, Monitoring, Treatment Technique, and Consumer Notification): 930

Note: Although a water system may be out of compliance with more than one MCL or monitoring requirement, we counted that system only once when calculating total number systems in violation.

Attachment D: Systems with MCL and Treatment Technique Violations in 2014

ID #	System Name	Type	Src	Pop	Violation Type	Comments	Follow-up Action
12690	AGRUM - KENNEWICK AREA	NTNC	GW	80	Nitrate MCL	1 violation	
27849	BAYVIEW MEADOWS WATER SYSTEM	CWS	GW	39	Coliform MCL	July violation	Under BCA
08940	BERACHAH AT BUCK CREEK	TNC	SW	57	SWTR TTV	June violation	
AB879	BIG WALLYS	TNC	GW	67	Nitrate MCL	Quarter 1 violation	
08690	BROETJE ORCHARDS	CWS	GW	68	Nitrate MCL	Quarter 4 violation	
09200	BULLMAN BEACH	TNC	SW	35	SWTR TTV	Jan thru Dec violations	Issuing NOC
AA220	BURBANK SHELL	TNC	GW	120	Nitrate MCL	Quarter 1 violation	
10562	CALMOR COVE CLUB	CWS	SW	29	SWTR TTV	April violation	
10590	CAMANO CITY COMMUNITY CLUB INC	CWS	GW	266	Coliform MCL	Jan violation	RTC
05859	CANTERWOOD WATER SYSTEM	CWS	GW	1805	Coliform MCL	November violation	RTC
11060	CAPE HORN MAINTENANCE COMPANY	CWS	GW	940	Coliform MCL	June & Sept violations	RTC
60653	CHELATCHIE PRAIRIE GENERAL STORE	TNC	GW	407	Coliform MCL	Oct violation	RTC
47128	CHRIST COMMUNITY FELLOWSHIP	NTNC	GW	115	Nitrate MCL	Quarter 1, 3, & 4 violations	
AB441	CLAYTON ORCHARDS HOUSING	TNC	GW	72	Nitrate MCL	Quarter 1, 2, 3, & 4 violations	Under NOC
07200	COLUMBIA CREST ESTATES	CWS	GW	55	Arsenic MCL	Quarter 1, 2, 3, & 4 violations	Under NOC
14600	CONNELL, CITY OF	CWS	GW	5150	Nitrate MCL	1 violation	Under BCA
AC357	COX BRAYS LANDING WATER SYSTEM	TNC	GW	96	Coliform MCL	Aug violation	
SP200	CURLEW LAKE STATE PARK	TNC	GW	778	Nitrate MCL	Quarter 1, 2, & 3 violations	BCA Issued
18750	DELTA WATER ASSOCIATION	CWS	GW	420	Nitrate MCL	Quarter 1 violation	Under NOC
02217	EAGLE VALLEY WATER SYSTEM	CWS	GW	135	Coliform MCL	Sept violation	RTC
26707	EASTLAKE WATER ASSOCIATION	CWS	GW	65	Nitrate MCL	Quarter 1 & 2 violations	
25155	FIRE MT SCOUT RESERVATION	TNC	SW	266	SWTR TTV	Aug violation	RTC
09639	FISHHOOK PARK	TNC	GW	1302	Nitrate MCL	Quarter 2 & 3 violations	Under BCA
25774	FOOTHILLS COMMUNITY CHURCH	TNC	GW	58	Coliform MCL	Sept violation	
25774	FOOTHILLS COMMUNITY CHURCH	TNC	GW	58	Nitrate MCL	1 violation	
34000	HONEYMOON BAY VISTA WATER ASSN.	TNC	GW	19	Coliform MCL	July violation	RTC

ID #	System Name	Type	Src	Pop	Violation Type	Comments	Follow-up Action
39411	JOHNSON CREEK WATER USERS ASSN	CWS	GW	48	Combined Uranium MCL	Quarter 2 violation	Under BCA
19906	LAKEVIEW SUBDIVISION	TNC	GW	9	Nitrate MCL	Quarter 1, 2, 3, & 4 violations	Under BCA
73920	LAMB-WESTON PASCO	NTNC	GW	500	Nitrate MCL	2 violations	
07359	MAC THOM ORCHARDS	TNC	GW	27	Nitrate MCL	Quarter 2 violation	
51115	MAPLE GLEN COMMUNITY ASSOCIATION	CWS	GW	130	Coliform MCL	Sept violation	RTC
51215	MAPLE MANOR MOBILE HOME PARK	CWS	GW	120	Coliform MCL	Dec violation	Okay since Dec '14
56500	MOUNT BAKER WATER ASSOCIATION	CWS	GW	500	Coliform MCL	Oct violation	RTC
26014	NEWAUKUM VALLEY GOLF COURSE APTS	CWS	GW	186	Coliform MCL	May violation	RTC
59575	NISQUALITY COMMERCIAL PARK	NTNC	GW	940	Arsenic MCL	Quarter 1, 2, 3, & 4 violations	
63450	OLYMPIA, CITY OF	CWS	SW	65221	SWTR TTV	Oct violation	RTC
64300	ORIENT WATER COMPANY	CWS	SW	207	SWTR TTV	Feb, Mar, Apr, May, July, Aug, Sept, Oct, & Dec violations	Under NOC
SP630	PAILOSE FALLS STATE PARK	TNC	GW	292	Coliform MCL	Aug violation	
AD123	PAN AMERICAN BERRY GROWERS	TNC	GW	178	Nitrate MCL	Quarter 1 violation	
66300	PASADENA PARK IRR DIST 17	CWS	GW	6269	Coliform MCL	March violation	RTC
55450	PHILLIPS 66 COMPANY	NTNC	SW	288	SWTR TTV	July violation	RTC
56829	RADER FARMS LABOR CAMP	TNC	GW	54	Nitrate MCL	Quarter 1 violation	Under BCA
AD017	RANGEVIEW	TNC	GW	55	Nitrate MCL	Quarter 1 & 3 violations	
03987	RIVERVIEW BIBLE CAMP	TNC	GW	124	Coliform MCL	May violation	Okay since May '14
43530	SHOREWOOD	CWS	GW	52	Coliform MCL	November violation	
AA642	SKAGIT CO PUD - MARBLEMOUNT	CWS	GW	211	Coliform MCL	Aug violation	RTC
79860	SKOOKUMCHUCK MAINTENANCE	CWS	GW	114	Coliform MCL	April violation	Under NOC
17641	SMWE - COLUMBIA CREST WINERY	NTNC	GW	218	Nitrate MCL	Quarter 4 violation	
30434	STEVENS CO PUD - MISSION RIDGE	CWS	GW	99	Arsenic MCL	Quarter 2 & 3 violations	
84530	STONE CREEK ESTATES WATER ASSN.	CWS	GW	62	Coliform MCL	Oct violation	RTC
SP900	SUCIA ISLAND STATE PARK	TNC	GW	679	SWTR TTV	March violation	RTC
13451	SUNRISE ESTATES WATER SYSTEM	CWS	GW	30	Nitrate MCL	Quarter 1, 2 & 4 violations	Under NOC

ID #	System Name	Type	Src	Pop	Violation Type	Comments	Follow-up Action
86800	TACOMA WATER DIVISION, CITY OF	CWS	SW	317581	SWTR TTV	Apr thru Nov violations	RTC
89650	TULARE BEACH ASSOCIATION	CWS	GW	54	Coliform MCL	Sept violation	RTC
14131	TYSON FRESH MEATS INC	NTNC	GW	1500	Nitrate MCL	Quarter 1 & 2 violations	
56831	VICENTE FARMS & SONS ENTERPRISE	TNC	GW	45	Nitrate MCL	Quarter 1 violation	Under NOC
AC298	WAHLUKE MEETING HOUSE	TNC	GW	80	Nitrate MCL	Quarter 1 & 4 violations	Under BCA
AA597	WALLA WALLA RIVER PACKING & STORAGE	NTNC	GW	75	Nitrate MCL	Quarter 1, 3, & 4 violations	
17970	WEST BEACH ROAD ASSOCIATION	CWS	GW	40	Coliform MCL	Sept violation	RTC
AA251	WESTERN POLYMER	NTNC	GW	35	Nitrate MCL	Quarter 4 violation	
37680	WHIDBEY GREENBANK FARM	TNC	GW	178	Coliform MCL	July violation	RTC
05796	WSP KENNEWICK DETACHMENT	TNC	GW	30	Nitrate MCL	Quarter 1 & 4 violations	
02507	WYCKOFF FARMS - SUNNY HOP	TNC	GW	71	Nitrate MCL	1 violation	BCA Issued

