

# FLORENCE CITY OF 2016 Drinking Water Quality Report For Calendar Year 2015

*Public Water System ID:* CO0122500

**Esta es información importante. Si no la pueden leer, necesitan que alguien se la traduzca.**

We are pleased to present to you this year's water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact BRANDON HARRIS at 719-784-0617 with any questions about the Drinking Consumer Confidence Rule (CCR) or for public participation opportunities that may affect the water quality.

## **General Information**

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) or by visiting <http://water.epa.gov/drink/contaminants>.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at (1-800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- Microbial contaminants:** viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants:** salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides:** may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.
- Radioactive contaminants:** can be naturally occurring or be the result of oil and gas production and mining activities.
- Organic chemical contaminants:** including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes

FLORENCE CITY OF, PWS ID: CO0122500

regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

## **Lead in Drinking Water**

If present, elevated levels of lead can cause serious health problems (especially for pregnant women and young children). It is possible that lead levels at your home may be higher than other homes in the community as a result of materials used in your home's plumbing. If you are concerned about lead in your water, you may wish to have your water tested. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

## **Source Water Assessment and Protection (SWAP)**

The Colorado Department of Public Health and Environment has provided us with a Source Water Assessment Report for our water supply. For general information or to obtain a copy of the report please visit <http://wqcdcompliance.com/ccr>. The report is located under "Source Water Assessment Reports", and then "Assessment Report by County". Select FREMONT County and find 122500; FLORENCE CITY OF or by contacting BRANDON HARRIS at 719-784-0617. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that ***could*** occur. It ***does not*** mean that the contamination ***has or will*** occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan. Potential sources of contamination in our source water area are listed on the next page.

Please contact us to learn more about what you can do to help protect your drinking water sources, any questions about the Drinking Water Consumer Confidence Report, to learn more about our system, or to attend scheduled public meetings. We want you, our valued customers, to be informed about the services we provide and the quality water we deliver to you every day.

## Our Water Sources

<u>Source</u>	<u>Source Type</u>	<u>Water Type</u>	<u>Potential Source(s) of Contamination</u>
ARKANSAS RVR MINNEQUA CANAL	Intake	Surface Water	EPA Superfund Sites, EPA Abandoned Contaminated Sites EPA Hazardous Waste Generators EPA Chemical Inventory/Storage Sites EPA Toxic Release Inventory Sites Permitted Wastewater Discharge Sites Aboveground, Underground and Leaking Storage Tank Sites Solid Waste Sites Existing/Abandoned Mine Sites Concentrated Animal Feeding Operations Other Facilities Commercial/Industrial/Transportation High Intensity Residential Low Intensity Residential Urban Recreational Grasses Quarries / Strip Mines / Gravel Pits Row Crops Fallow Small Grains Pasture / Hay Orchards / Vineyards / Other Deciduous Forest Evergreen Forest Mixed Forest Septic Systems Oil / Gas Wells Road Miles
NEWLIN CREEK	Intake	Surface Water	EPA Superfund Sites, EPA Abandoned Contaminated Sites EPA Hazardous Waste Generators EPA Chemical Inventory/Storage Sites EPA Toxic Release Inventory Sites Permitted Wastewater Discharge Sites Aboveground, Underground and Leaking Storage Tank Sites Solid Waste Sites Existing/Abandoned Mine Sites Concentrated Animal Feeding Operations Other Facilities Commercial/Industrial/Transportation High Intensity Residential Low Intensity Residential Urban Recreational Grasses Quarries / Strip Mines / Gravel Pits Row Crops Fallow Small Grains Pasture / Hay Orchards / Vineyards / Other Deciduous Forest Evergreen Forest Mixed Forest Septic Systems Oil / Gas Wells Road Miles
ADOBE CREEK	Intake	Surface Water	EPA Superfund Sites, EPA Abandoned Contaminated Sites EPA Hazardous Waste Generators EPA Chemical Inventory/Storage Sites EPA Toxic Release Inventory Sites Permitted Wastewater Discharge Sites Aboveground, Underground and Leaking Storage Tank Sites Solid Waste Sites Existing/Abandoned Mine Sites Concentrated Animal Feeding Operations Other Facilities Commercial/Industrial/Transportation High Intensity Residential

			<p>Low Intensity Residential  Urban Recreational Grasses  Quarries / Strip Mines / Gravel Pits  Row Crops  Fallow  Small Grains  Pasture / Hay  Orchards / Vineyards / Other  Deciduous Forest  Evergreen Forest  Mixed Forest  Septic Systems  Oil / Gas Wells  Road Miles</p>
MINERAL CREEK	Intake	Surface Water	<p>EPA Superfund Sites,  EPA Abandoned Contaminated Sites  EPA Hazardous Waste Generators  EPA Chemical Inventory/Storage Sites  EPA Toxic Release Inventory Sites  Permitted Wastewater Discharge Sites  Aboveground, Underground and Leaking  Storage Tank Sites  Solid Waste Sites  Existing/Abandoned Mine Sites  Concentrated Animal Feeding Operations  Other Facilities  Commercial/Industrial/Transportation  High Intensity Residential  Low Intensity Residential  Urban Recreational Grasses  Quarries / Strip Mines / Gravel Pits  Row Crops  Fallow  Small Grains  Pasture / Hay  Orchards / Vineyards / Other  Deciduous Forest  Evergreen Forest  Mixed Forest  Septic Systems  Oil / Gas Wells  Road Miles</p>
ROCKVALE INFS AND WELLS RAW WATER	Intake	Surface Water	<p>EPA Superfund Sites,  EPA Abandoned Contaminated Sites  EPA Hazardous Waste Generators  EPA Chemical Inventory/Storage Sites  EPA Toxic Release Inventory Sites  Permitted Wastewater Discharge Sites  Aboveground, Underground and Leaking  Storage Tank Sites  Solid Waste Sites  Existing/Abandoned Mine Sites  Concentrated Animal Feeding Operations  Other Facilities  Commercial/Industrial/Transportation  High Intensity Residential  Low Intensity Residential  Urban Recreational Grasses  Quarries / Strip Mines / Gravel Pits  Row Crops  Fallow  Small Grains  Pasture / Hay  Orchards / Vineyards / Other  Deciduous Forest  Evergreen Forest  Mixed Forest  Septic Systems  Oil / Gas Wells  Road Miles</p>

## Terms and Abbreviations

- **Maximum Contaminant Level (MCL)** – The highest level of a contaminant allowed in drinking water.
- **Treatment Technique (TT)** – A required process intended to reduce the level of a contaminant in drinking water.
- **Action Level (AL)** – The concentration of a contaminant which, if exceeded, triggers treatment and other regulatory requirements.
- **Maximum Residual Disinfectant Level (MRDL)** – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Maximum Contaminant Level Goal (MCLG)** – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **Maximum Residual Disinfectant Level Goal (MRDLG)** – The level of a drinking water disinfectant, below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **Violation (No Abbreviation)** – Failure to meet a Colorado Primary Drinking Water Regulation.
- **Formal Enforcement Action (No Abbreviation)** – Escalated action taken by the State (due to the risk to public health, or number or severity of violations) to bring a non-compliant water system back into compliance.
- **Variance and Exemptions (V/E)** – Department permission not to meet a MCL or treatment technique under certain conditions.
- **Gross Alpha (No Abbreviation)** – Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222, and uranium.
- **Picocuries per liter (pCi/L)** – Measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** – Measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is just noticeable to the typical person.
- **Compliance Value (No Abbreviation)** – Single or calculated value used to determine if regulatory contaminant level (e.g. MCL) is met. Examples of calculated values are the 90<sup>th</sup> Percentile, Running Annual Average (RAA) and Locational Running Annual Average (LRAA).
- **Average (x-bar)** – Typical value.
- **Range (R)** – Lowest value to the highest value.
- **Sample Size (n)** – Number or count of values (i.e. number of water samples collected).
- **Parts per million = Milligrams per liter (ppm = mg/L)** – One part per million corresponds to one minute in two years or a single penny in \$10,000.
- **Parts per billion = Micrograms per liter (ppb = ug/L)** – One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Not Applicable (N/A)** – Does not apply or not available.

---

## Detected Contaminants

FLORENCE CITY OF routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table(s) show all detections found in the period of January 1 to December 31, 2015 unless otherwise noted. The State of Colorado requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Therefore, some of our data, though representative, may be more than one year old. Violations and Formal Enforcement Actions, if any, are reported in the next section of this report.

**Note:** Only detected contaminants sampled within the last 5 years appear in this report. If no tables appear in this section then no contaminants were detected in the last round of monitoring.

Lead and Copper Sampled in the Distribution System								
Contaminant Name	Time Period	90 <sup>th</sup> Percentile	Sample Size	Unit of Measure	90 <sup>th</sup> Percentile AL	Sample Sites Above AL	90 <sup>th</sup> Percentile AL Exceedance	Typical Sources
Copper	07/16/2014 to 07/16/2014	0.13	20	ppm	1.3		No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	07/16/2014 to 07/16/2014	1.7	20	ppb	15		No	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts Sampled in the Distribution System										
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	Highest Compliance Value	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2015	20.77	16.3 to 25.2	4	ppb	60	N/A		No	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM)	2015	67.08	44.4 to 96.3	5	ppb	80	N/A		No	Byproduct of drinking water disinfection

Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio of Raw and Finished Water								
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	TT Minimum Ratio	TT Violation	Typical Sources
Total Organic Carbon Ratio	2015	1.36	0.78 to 1.85	4	Ratio	1.00	No	Naturally present in the environment
*If minimum ratio not met and no violation identified then the system achieved compliance using alternative criteria.								

**Summary of Turbidity Sampled at the Entry Point to the Distribution System**

Contaminant Name	Sample Date	Level Found	TT Requirement	TT Violation	Typical Sources
Turbidity	Date/Month: Jun	<u>Highest single</u> measurement: 0.278 NTU	Maximum 1 NTU for any single measurement	No	Soil Runoff
Turbidity	Month: Dec	<u>Lowest monthly</u> percentage of samples meeting TT requirement for our technology: 100 %	In any month, at least 95% of samples must be less than 0.3 NTU	No	Soil Runoff

**Inorganic Contaminants Sampled at the Entry Point to the Distribution System**

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Barium	2015	0.07	0.07 to 0.07	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	2015	0.51	0.51 to 0.51	1	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate-Nitrite	2013	0.02	0.02 to 0.02	1	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	2015	0.87	0.87 to 0.87	1	ppb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

**Secondary Contaminants\*\***

\*\*Secondary standards are non-enforceable guidelines for contaminants that may cause cosmetic effects (such as skin, or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	Secondary Standard
Total Dissolved Solids	2013	174	174 to 174	1	ppm	500

**Unregulated Contaminants\*\*\***

EPA has implemented the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the Safe Drinking Water Act. EPA uses the results of UCMR monitoring to learn about the occurrence of unregulated contaminants in drinking water and to decide whether or not these contaminants will be regulated in the future. We performed monitoring and reported the analytical results of the monitoring to EPA in accordance with its Third Unregulated Contaminant Monitoring Rule (UCMR3). Once EPA reviews the submitted results, the results are made available in the EPA's National Contaminant Occurrence Database (NCOD) (<http://www.epa.gov/dwucmr/national-contaminant-occurrence-database-ncod>) Consumers can review UCMR results by accessing the NCOD. Contaminants that were detected during our UCMR3 sampling and the corresponding analytical results are provided below.

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure
Molybdenum EP008	2015	3.2	2.85 to 4.0	4	µg/L
Strontium EP008	2015	297.25	236 to 430	4	µg/L
Vanadium EP008	2015	0.47075	0.277 to 0.676	4	µg/L
Chromium-6 EP008	2015	0.0382	0.0382 to 0.0382	4	µg/L
Chlorate EP008	2015	128.725	53.9 to 220	4	µg/L
Molybdenum Max Res.	2015	3.2075	2.6 to 3.8	4	µg/L
Strontium Max Res.	2015	286.5	180 to 380	4	µg/L
Vanadium Max Res.	2015	0.50175	0.38 to 0.61	4	µg/L
Chromium-6 Max Res.	2015	0.0319	0.0308 to 0.033	4	µg/L
Chlorate Max Res.	2015	243.5	130 to 340	4	µg/L

\*\*\*More information about the contaminants that were included in UCMR3 monitoring can be found at: <http://www.drinktap.org/water-info/whats-in-my-water/unregulated-contaminant-monitoring-rule.aspx>. Learn more about the EPA UCMR at: <http://www.epa.gov/dwucmr/learn-about-unregulated-contaminant-monitoring-rule> or contact the Safe Drinking Water Hotline at (800) 426-4791 or <http://water.epa.gov/drink/contact.cfm>.

\* µg/L = micrograms per liter      \* EP008 = Water Treatment Plant Sample Site      \*Max Res. = Maximum Residence Time in the Distribution System

## Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

PWS ID/Name	CO0122500	City of Florence
Sample Event Code/Sample Schedule	SE1	February, 2015
Facility ID/Name	14900	South WTP
Sample Point ID/Type/Name	EP008	EP SWTP 03
Disinfectant Type <sup>1</sup>	CLOF	

Sample Kit ID	Method ID	Analyte Name <sup>2</sup>	Collection Date	Reported Value <sup>3</sup> (µg/L) <sup>4</sup>
112168Q	EPA 200.8	chromium	2/11/2015	<0.2
112168Q	EPA 200.8	cobalt	2/11/2015	<1
112168Q	EPA 200.8	germanium	2/11/2015	<1
112168Q	EPA 200.8	manganese	2/11/2015	<1
112168Q	EPA 200.8	molybdenum	2/11/2015	=2.85
112168Q	EPA 200.8	strontium	2/11/2015	=283
112168Q	EPA 200.8	tellurium	2/11/2015	<1
112168Q	EPA 200.8	vanadium	2/11/2015	=0.277
112168Q	EPA 218.7	chromium-6	2/11/2015	<0.03
112168Q	EPA 300.1	chlorate	2/11/2015	=53.9
112168Q	EPA 522	1,4-dioxane	2/11/2015	<0.07
112168Q	EPA 524.3	1,1-dichloroethane	2/11/2015	<0.03
112168Q	EPA 524.3	1,2,3-trichloropropane	2/11/2015	<0.03
112168Q	EPA 524.3	1,3-butadiene	2/11/2015	<0.1
112168Q	EPA 524.3	bromomethane	2/11/2015	<0.2
112168Q	EPA 524.3	chloromethane	2/11/2015	<0.2
112168Q	EPA 524.3	Halon 1011	2/11/2015	<0.06
112168Q	EPA 524.3	HCFC-22	2/11/2015	<0.08
112168Q	EPA 524.3	n-propylbenzene	2/11/2015	<0.03
112168Q	EPA 524.3	sec-butylbenzene	2/11/2015	<0.04
112168Q	EPA 537	PFBS	2/11/2015	<0.09
112168Q	EPA 537	PFHpA	2/11/2015	<0.01
112168Q	EPA 537	PFHxS	2/11/2015	<0.03
112168Q	EPA 537	PFNA	2/11/2015	<0.02
112168Q	EPA 537	PFOA	2/11/2015	<0.02
112168Q	EPA 537	PFOS	2/11/2015	<0.04

CO0122500

5/19/2015



## Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

Facility ID/Name	06725	Distribution System
Sample Point ID/Type/Name	MAXRES1 MR	Max. Res. Time in Dist. System
Disinfectant Type <sup>1</sup>	CLOF	

Sample Kit ID	Method ID	Analyte Name <sup>2</sup>	Collection Date	Reported Value <sup>3</sup> (µg/L) <sup>4</sup>
312252P	EPA 200.8	chromium	2/11/2015	<0.2
312252P	EPA 200.8	cobalt	2/11/2015	<1
312252P	EPA 200.8	germanium	2/11/2015	<1
312252P	EPA 200.8	manganese	2/11/2015	<1
312252P	EPA 200.8	molybdenum	2/11/2015	=3.43
312252P	EPA 200.8	strontium	2/11/2015	=326
312252P	EPA 200.8	tellurium	2/11/2015	<1
312252P	EPA 200.8	vanadium	2/11/2015	=0.457
312252P	EPA 218.7	chromium-6	2/11/2015	=0.0308
312252P	EPA 300.1	chlorate	2/11/2015	=184

<sup>1</sup>Disinfectant types were collected for EPA Method 300.1: Gaseous Chlorine (CLGA), Offsite Generated Hypochlorite (CLOF), Onsite Generated Hypochlorite (CLON), Chloramine-formed from gaseous chlorine (CAGC), Chloramine-formed from offsite hypochlorite (CAOF), Chloramine-formed from onsite hypochlorite (CAON), Chlorine Dioxide (CLDO), Ozone (OZON), Ultraviolet Light (ULVL), Other (OTH), No Disinfectant Used (NODU).

<sup>2</sup>In addition to reporting occurrence data for UCMR3 target analytes, EPA tasked its small-system contract-support laboratories with reporting results for sec-butylbenzene, n-propylbenzene, tellurium, germanium, and manganese. These additional unregulated analytes are within the scope of the methods already being performed for the UCMR analytes. The CCR reporting requirement does not apply to these additional analytes.

<sup>3</sup>Results less than the minimum reporting level (MRL) are displayed with a less than sign (<) and the MRL. Reported values equal to or greater than the MRL are displayed with an equal sign (=) and the reported value from the laboratory. No data reportable (NDR) indicates that EPA could not obtain valid data for this contaminant during the scheduled sampling event.

<sup>4</sup>A detection of a UCMR3 analyte above the MRL does not represent cause for concern, in itself. The implications of the detection should be judged considering health effects information, which is often still under development or being refined for unregulated contaminants. For more information on occurrence data consult "UCMR 3 Data Considerations, Definitions, Reference Concentrations and Summary PDF" at <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/data.cfm#ucmr2013>.

CO0122500

5/19/2015

## Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

PWS ID/Name	CO0122500	City of Florence
Sample Event Code/Sample Schedule	SE2	May, 2015
Facility ID/Name	14900	South WTP
Sample Point ID/Type/Name	EP008	EP SWTP 03
Disinfectant Type <sup>1</sup>	CLOF	

Sample Kit ID	Method ID	Analyte Name <sup>2</sup>	Collection Date	Reported Value <sup>3</sup> (µg/L) <sup>4</sup>
113211P	EPA 200.8	chromium	5/12/2015	<0.2
113211P	EPA 200.8	cobalt	5/12/2015	<1
113211P	EPA 200.8	germanium	5/12/2015	<1
113211P	EPA 200.8	manganese	5/12/2015	<1
113211F	EPA 200.8	molybdenum	5/12/2015	=3.05
113211P	EPA 200.8	strontium	5/12/2015	=240
113211P	EPA 200.8	tellurium	5/12/2015	<1
113211P	EPA 200.8	vanadium	5/12/2015	=0.42
113211F	EPA 218.7	chromium-6	5/12/2015	=0.0382
113211F	EPA 300.1	chlorate	5/12/2015	=61
113211P	EPA 522	1,4-dioxane	5/12/2015	<0.07
113211P	EPA 524.3	1,1-dichloroethane	5/12/2015	<0.03
113211P	EPA 524.3	1,2,3-trichloropropane	5/12/2015	<0.03
113211P	EPA 524.3	1,3-butadiene	5/12/2015	<0.1
113211P	EPA 524.3	bromomethane	5/12/2015	<0.2
113211P	EPA 524.3	chloromethane	5/12/2015	<0.2
113211P	EPA 524.3	Halon 1011	5/12/2015	<0.06
113211P	EPA 524.3	HCFC-22	5/12/2015	<0.08
113211P	EPA 524.3	n-propylbenzene	5/12/2015	<0.03
113211P	EPA 524.3	sec-butylbenzene	5/12/2015	<0.04
113211P	EPA 537	PFBS	5/12/2015	<0.09
113211P	EPA 537	PFHpA	5/12/2015	<0.01
113211P	EPA 537	PFHxS	5/12/2015	<0.03
113211P	EPA 537	PFNA	5/12/2015	<0.02
113211P	EPA 537	PFOA	5/12/2015	<0.02
113211P	EPA 537	PFOS	5/12/2015	<0.04

CO0122500

9/28/2015

## Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

Facility ID/Name	06725	Distribution System
Sample Point ID/Type/Name	MAXRES1 MR	Max. Res. Time in Dist. System
Disinfectant Type <sup>1</sup>	CLOF	

Sample Kit ID	Method ID	Analyte Name <sup>2</sup>	Collection Date	Reported Value <sup>3</sup> (µg/L) <sup>4</sup>
313289P	EPA 200.8	chromium	5/12/2015	<0.2
313289P	EPA 200.8	cobalt	5/12/2015	<1
313289P	EPA 200.8	germanium	5/12/2015	<1
313289P	EPA 200.8	manganese	5/12/2015	<1
313289P	EPA 200.8	molybdenum	5/12/2015	=3
313289P	EPA 200.8	strontium	5/12/2015	=260
313289P	EPA 200.8	tellurium	5/12/2015	<1
313289P	EPA 200.8	vanadium	5/12/2015	=0.38
313289P	EPA 218.7	chromium-6	5/12/2015	=0.033
313289P	EPA 300.1	chlorate	5/12/2015	=130

<sup>1</sup>Disinfectant types were collected for EPA Method 300.1: Gaseous Chlorine (CLGA), Offsite Generated Hypochlorite (CLOF), Onsite Generated Hypochlorite (CLON), Chloramine-formed from gaseous chlorine (CAGC), Chloramine-formed from offsite hypochlorite (CAOF), Chloramine-formed from onsite hypochlorite (CAON), Chlorine Dioxide (CLDO), Ozone (OZON), Ultraviolet Light (ULVL), Other (OTHD), No Disinfectant Used (NODU).

<sup>2</sup>In addition to reporting occurrence data for UCMR3 target analytes, EPA tasked its small-system contract-support laboratories with reporting results for sec-butylbenzene, n-propylbenzene, tellurium, germanium, and manganese. These additional unregulated analytes are within the scope of the methods already being performed for the UCMR analytes. The CCR reporting requirement does not apply to these additional analytes.

<sup>3</sup>Results less than the minimum reporting level (MRL) are displayed with a less than sign (<) and the MRL. Reported values equal to or greater than the MRL are displayed with an equal sign (=) and the reported value from the laboratory. No data reportable (NDR) indicates that EPA could not obtain valid data for this contaminant during the scheduled sampling event.

<sup>4</sup>A detection of a UCMR3 analyte above the MRL does not represent cause for concern, in itself. The implications of the detection should be judged considering health effects information, which is often still under development or being refined for unregulated contaminants. For more information on occurrence data consult "UCMR 3 Data Considerations, Definitions, Reference Concentrations and Summary PDF" at <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/data.cfm#ucmr2013>.

CO0122500

9/28/2015

## Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

PWS ID/Name	CO0122500	City of Florence
Sample Event Code/Sample Schedule	SE3	August, 2015
Facility ID/Name	14900	South WTP
Sample Point ID/Type/Name	EP008	EP SWTP 03
Disinfectant Type <sup>1</sup>	CLOF	

Sample Kit ID	Method ID	Analyte Name <sup>2</sup>	Collection Date	Reported Value <sup>3</sup> (µg/L) <sup>4</sup>
114768P	EPA 200.8	chromium	8/11/2015	<0.2
114768P	EPA 200.8	cobalt	8/11/2015	<1
114768P	EPA 200.8	germanium	8/11/2015	<1
114768P	EPA 200.8	manganese	8/11/2015	<1
114768P	EPA 200.8	molybdenum	8/11/2015	=2.9
114768F	EPA 200.8	strontium	8/11/2015	=236
114768P	EPA 200.8	tellurium	8/11/2015	<1
114768F	EPA 200.8	vanadium	8/11/2015	=0.676
114768P	EPA 218.7	chromium-6	8/11/2015	<0.03
114768P	EPA 300.1	chlorate	8/11/2015	=220
114768P	EPA 522	1,4-dioxane	8/11/2015	<0.07
114768P	EPA 524.3	1,1-dichloroethane	8/11/2015	<0.03
114768P	EPA 524.3	1,2,3-trichloropropane	8/11/2015	<0.03
114768P	EPA 524.3	1,3-butadiene	8/11/2015	<0.1
114768P	EPA 524.3	bromomethane	8/11/2015	<0.2
114768P	EPA 524.3	chloromethane	8/11/2015	<0.2
114768P	EPA 524.3	Halon 1011	8/11/2015	<0.06
114768P	EPA 524.3	HCFC-22	8/11/2015	<0.08
114768P	EPA 524.3	n-propylbenzene	8/11/2015	<0.03
114768P	EPA 524.3	sec-butylbenzene	8/11/2015	<0.04
114768P	EPA 537	PFBS	8/11/2015	<0.09
114768P	EPA 537	PFHpA	8/11/2015	<0.01
114768P	EPA 537	PFHxS	8/11/2015	<0.03
114768P	EPA 537	PFNA	8/11/2015	<0.02
114768P	EPA 537	PFOA	8/11/2015	<0.02
114768P	EPA 537	PFOS	8/11/2015	<0.04

CO0122500

3/21/2016

## Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

Facility ID/Name	06725	Distribution System
Sample Point ID/Type/Name	MAXRES1 MR	Max. Res. Time in Dist. System
Disinfectant Type <sup>1</sup>	CLOF	

Sample Kit ID	Method ID	Analyte Name <sup>2</sup>	Collection Date	Reported Value <sup>3</sup> (µg/L) <sup>4</sup>
314853P	EPA 200.8	chromium	8/11/2015	<0.2
314853P	EPA 200.8	cobalt	8/11/2015	<1
314853P	EPA 200.8	germanium	8/11/2015	<1
314853P	EPA 200.8	manganese	8/11/2015	<1
314853P	EPA 200.8	molybdenum	8/11/2015	=2.6
314853P	EPA 200.8	strontium	8/11/2015	=180
314853P	EPA 200.8	tellurium	8/11/2015	<1
314853P	EPA 200.8	vanadium	8/11/2015	=0.61
314853P	EPA 218.7	chromium-6	8/11/2015	<0.03
314853P	EPA 300.1	chlorate	8/11/2015	=340

<sup>1</sup>Disinfectant types were collected for EPA Method 300.1: Gaseous Chlorine (CLGA), Offsite Generated Hypochlorite (CLOF), Onsite Generated Hypochlorite (CLON), Chloramine-formed from gaseous chlorine (CAGC), Chloramine-formed from offsite hypochlorite (CAOF), Chloramine-formed from onsite hypochlorite (CAON), Chlorine Dioxide (CLDO), Ozone (OZON), Ultraviolet Light (ULVL), Other (OTH), No Disinfectant Used (NODU).

<sup>2</sup>In addition to reporting occurrence data for UCMR3 target analytes, EPA tasked its small-system contract-support laboratories with reporting results for sec-butylbenzene, n-propylbenzene, tellurium, germanium, and manganese. These additional unregulated analytes are within the scope of the methods already being performed for the UCMR analytes. The CCR reporting requirement does not apply to these additional analytes.

<sup>3</sup>Results less than the minimum reporting level (MRL) are displayed with a less than sign (<) and the MRL. Reported values equal to or greater than the MRL are displayed with an equal sign (=) and the reported value from the laboratory. No data reportable (NDR) indicates that EPA could not obtain valid data for this contaminant during the scheduled sampling event.

<sup>4</sup>A detection of a UCMR3 analyte above the MRL does not represent cause for concern, in itself. The implications of the detection should be judged considering health effects information, which is often still under development or being refined for unregulated contaminants. For more information on occurrence data consult "UCMR 3 Data Considerations, Definitions, Reference Concentrations and Summary PDF" at <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/data.cfm#ucmr2013>.

CO0122500

3/21/2016

## Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

PWS ID/Name	CO0122500	City of Florence
Sample Event Code/Sample Schedule	SE4	November, 2015
Facility ID/Name	14900	South WTP
Sample Point ID/Type/Name	EP008	EP SWTP 03
Disinfectant Type <sup>1</sup>	CLOF	

Sample Kit ID	Method ID	Analyte Name <sup>2</sup>	Collection Date	Reported Value <sup>3</sup> (µg/L) <sup>4</sup>
116032P	EPA 200.8	chromium	11/11/2015	<0.2
116032P	EPA 200.8	cobalt	11/11/2015	<1
116032P	EPA 200.8	germanium	11/11/2015	<1
116032P	EPA 200.8	manganese	11/11/2015	<1
116032P	EPA 200.8	molybdenum	11/11/2015	=4
116032P	EPA 200.8	strontium	11/11/2015	=430
116032P	EPA 200.8	tellurium	11/11/2015	<1
116032P	EPA 200.8	vanadium	11/11/2015	=0.51
116032P	EPA 218.7	chromium-6	11/11/2015	<0.03
116032P	EPA 300.1	chlorate	11/11/2015	=180
116032P	EPA 522	1,4-dioxane	11/11/2015	<0.07
116032P	EPA 524.3	1,1-dichloroethane	11/11/2015	<0.03
116032P	EPA 524.3	1,2,3-trichloropropane	11/11/2015	<0.03
116032P	EPA 524.3	1,3-butadiene	11/11/2015	<0.1
116032P	EPA 524.3	bromomethane	11/11/2015	<0.2
116032P	EPA 524.3	chloromethane	11/11/2015	<0.2
116032P	EPA 524.3	Halon 1011	11/11/2015	<0.06
116032P	EPA 524.3	HCFC-22	11/11/2015	<0.08
116032P	EPA 524.3	n-propylbenzene	11/11/2015	<0.03
116032P	EPA 524.3	sec-butylbenzene	11/11/2015	<0.04
116032P	EPA 537	PFBS	11/11/2015	<0.09
116032P	EPA 537	PFHpA	11/11/2015	<0.01
116032P	EPA 537	PFHxS	11/11/2015	<0.03
116032P	EPA 537	PFNA	11/11/2015	<0.02
116032P	EPA 537	PFOA	11/11/2015	<0.02
116032P	EPA 537	PFOS	11/11/2015	<0.04

CO0122500

4/28/2016

## Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

Facility ID/Name	06725	Distribution System
Sample Point ID/Type/Name	MAXRES1 MR	Max. Res. Time in Dist. System
Disinfectant Type <sup>1</sup>	CLOF	

Sample Kit ID	Method ID	Analyte Name <sup>2</sup>	Collection Date	Reported Value <sup>3</sup> (µg/L) <sup>4</sup>
316110P	EPA 200.8	chromium	11/11/2015	<0.2
316110P	EPA 200.8	cobalt	11/11/2015	<1
316110P	EPA 200.8	germanium	11/11/2015	<1
316110P	EPA 200.8	manganese	11/11/2015	<1
316110P	EPA 200.8	molybdenum	11/11/2015	=3.8
316110P	EPA 200.8	strontium	11/11/2015	=380
316110P	EPA 200.8	tellurium	11/11/2015	<1
316110P	EPA 200.8	vanadium	11/11/2015	=0.56
316110P	EPA 218.7	chromium-6	11/11/2015	<0.03
316110P	EPA 300.1	chlorate	11/11/2015	=320

<sup>1</sup>Disinfectant types were collected for EPA Method 300.1: Gaseous Chlorine (CLGA), Offsite Generated Hypochlorite (CLOF), Onsite Generated Hypochlorite (CLON), Chloramine-formed from gaseous chlorine (CAGC), Chloramine-formed from offsite hypochlorite (CAOF), Chloramine-formed from onsite hypochlorite (CAON), Chlorine Dioxide (CLDO), Ozone (OZON), Ultraviolet Light (ULVL), Other (OTH), No Disinfectant Used (NODU).

<sup>2</sup>In addition to reporting occurrence data for UCMR3 target analytes, EPA tasked its small-system contract-support laboratories with reporting results for sec-butylbenzene, n-propylbenzene, tellurium, germanium, and manganese. These additional unregulated analytes are within the scope of the methods already being performed for the UCMR analytes. The CCR reporting requirement does not apply to these additional analytes.

<sup>3</sup>Results less than the minimum reporting level (MRL) are displayed with a less than sign (<) and the MRL. Reported values equal to or greater than the MRL are displayed with an equal sign (=) and the reported value from the laboratory. No data reportable (NDR) indicates that EPA could not obtain valid data for this contaminant during the scheduled sampling event.

<sup>4</sup>A detection of a UCMR3 analyte above the MRL does not represent cause for concern, in itself. The implications of the detection should be judged considering health effects information, which is often still under development or being refined for unregulated contaminants. For more information on occurrence data consult "UCMR 3 Data Considerations, Definitions, Reference Concentrations and Summary PDF" at <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/data.cfm#ucmr2013>.

CO0122500

4/28/2016

**Violations, Significant Deficiencies, and Formal Enforcement Actions**

Violations					
Name	Category	Time Period	Health Effects	Compliance Value	TT Level or MCL
TURBIDITY	MONITORING, ROUTINE (IESWTR/LT1), MINOR - MONITORING & REPORTING	07/01/2015 - 07/31/2015	N/A	N/A	N/A
CHLORINE	MONITORING, RTN/RPT MINOR (SWTR-FILTER) - MONITORING & REPORTING	07/01/2015 - 07/31/2015	N/A	N/A	N/A
DBP STAGE 1	QUALIFIED OPERATOR FAILURE - TREATMENT TECHNIQUE	04/01/2015 - 05/11/2015	N/A	N/A	N/A
Additional Violation Information					
<p><b>Note:</b> If any violation relates to failing to install adequate filtration or disinfection equipment or processes, or have had a failure of such equipment or processes then the water may be inadequately treated. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. Explanation of the violation(s) and the steps taken to resolve them:</p>					
<p>Monitoring and Reporting Violations: Electronic equipment failure, on July 9<sup>th</sup> 2015, caused the loss of 12 hours of Monthly operating data. Battery backup measures as well as proper shut down procedures have been taken to correct the issue.</p>					
<p>Qualified Operator Failure: The Distribution department in the City of Florence was void of a level 2 distribution operator, which is required by the state. As of 5/11/2015 an operator on staff with the city is now the ORC (operator in responsible charge) of the distribution system, meeting Colorado State requirements.</p>					