

## Annual Drinking Water Quality Report For 2004

Dillon Valley District

PWSID CO0159040

[www.dillonvalleydistrict.org](http://www.dillonvalleydistrict.org)

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

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water.

The State recently completed source water assessments for most community water systems. Please contact our representative listed below for more information about the source water assessment for our drinking water system, any questions about the annual drinking water report, to learn more about our system or to attend scheduled public water meetings. We want you, our valued customers, to be informed about your water utility, the services we provide and the quality water we deliver to you every day.

Our representative, Francis Winston, can be contacted at (970) 513-4120 or by email at [flw06@msn.com](mailto:flw06@msn.com).

Our water sources are Straight Creek and Laskey Gulch.

### **Some people may be more vulnerable to contaminants in drinking water than the public in general.**

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. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers. 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**, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic contaminants**, such as 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** that may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.
- **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 stormwater runoff, and septic systems.
- **Radioactive contaminants**, that can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

The table of detected contaminants contains many terms and abbreviations that may be unfamiliar. To help you better understand these terms we've provided the following definitions:

- *Action Level (AL): The concentration of a contaminant, if exceeded, triggers treatment or other requirements a water system must follow.*
- *Maximum Contaminant Level (MCL): The “maximum allowed” is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.*
- *Maximum Contaminant Level Goal (MCLG): The “goal” is 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.*
- *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.*
- *Nephelometric Turbidity Unit (NTU): Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of five NTU is just noticeable to the average person.*
- *Not Detected (ND) or Below Detection Level (BDL): Laboratory analysis indicates that the contaminant is not present. (“<” Symbol for less than, the same as ND or BDL)*
- *Not Tested (NT): Contaminant was not tested.*
- *Parts per billion (ppb) or Micrograms per liter (µg/l): One part per billion corresponds to one minute in 2,000 years, or one penny in \$10,000,000.*
- *Parts per million (ppm) or Milligrams per liter (mg/l): One part per million corresponds to one minute in two years or one penny in \$10,000.*
- *Parts per quadrillion (ppq) or Picograms per liter (pg/l): One part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.*
- *Parts per trillion (ppt) or Nanograms per liter (ng/l): One part per trillion corresponds to one minute in 2,000,000 years, or one penny in \$10,000,000,000.*
- *PicoCuries per Liter (pCi/l): A measure of radioactivity in water.*
- *Total Organic Carbon (TOC): A measure of the total amount of carbon in water, present as organic molecules.*
- *Treatment Technique (TT): A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.*

### **Additional Information**

**Nitrate** in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods-of-time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

If **arsenic** is less than 10 ppb, your drinking water meets EPA’s standards. EPA’s standard balances the current understanding of arsenic’s possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Infants and young children are typically more vulnerable to **lead** in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home’s plumbing. If you are concerned about elevated lead levels in your home’s water, you may wish to have your water tested. Flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

## Table of Detected Contaminants

The state 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. Some of our data, though representative, may be more than one year old.

**This table shows the results of our monitoring for the period of January 1 to December 31, 2003 unless otherwise noted.**

### Microbiological Contaminants

Contaminant	MCL	MCLG	Unit	System Result	Violation Yes or No	Sample Date	Likely Source of Contamination
Total Coliform Bacteria for Systems that collects <40 samples per month	1 positive monthly sample	0	Absent or Present	Absent	No	Monthly	Naturally present in the environment
Fecal coliform and E. Coli	A routine sample & a repeat sample are total coliform positive, & one is also fecal coliform or <i>E. coli positive</i>	0	Absent or Present		No		Human and animal fecal waste
Total Organic Carbon	TT	N/A	mg/l	0.15	No	Running Annual Average	Naturally present in the environment
Turbidity	TT (Lowest Monthly Percent of readings meeting TT limits)	N/A	NTU	%			Soil runoff

### Radionuclides

Contaminant	MCL	MCLG	Units	Level Detected & Range	Violation (Yes or No)	Sample Date	Likely Source of Contamination
Beta/positron emitters	Trigger level=50	0	pCi/l	0.9	No	October 22, 2001	Decay of natural and man-made deposits
Alpha emitters	15	0	pCi/l	0.0	No	October 22, 2001	Erosion of natural deposits
Combined radium	5	0	pCi/l	0.21	No	Nov. 28, 2000	Erosion of natural deposits
Uranium	30	0	µg/l	NT			Erosion of natural deposits

### Lead and Copper

Contaminant	AL	ALG	Units	Level Detected/ Range	Violation Yes or No	Sample Date	Likely Source of Contamination
Copper	1.3	1.3	ppm	0.06	No	Sept. 9, 2002	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	15	0	ppb	2.0	No	Sept. 9, 2002	Corrosion of household plumbing systems, erosion of natural deposits

### Inorganic Contaminants

Contaminant	MCL	MCLG	Units	Level Detected/ Range	Violation Yes or No	Sample Date	Likely Source of Contamination
Antimony	6	6	ppb	BDL	No	Aug. 04, 2004	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic * Effective January 23, 2006 (Until then, the MCL is 0.05 mg/L (50 ppb) and there is no MCLG.)	10.0*	0*	ppb	BDL	No	Aug. 04, 2004	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Asbestos	7	7	MFL	NT			Decay of asbestos cement water mains; erosion of natural deposits
Barium	2	2	ppm	0.012	No	Aug. 04, 2004	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

Contaminant	MCL	MCLG	Units	Level Detected/Range	Violation Yes or No	Sample Date	Likely Source of Contamination
Beryllium	4	4	ppb	BDL	No	Aug. 04, 2004	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium	5	5	ppb	BDL	No	Aug. 04, 2004	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium	100	100	ppb	BDL	No	Aug. 04, 2004	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide	200	200	ppb	NT			Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	4	4	ppm	NT			Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic)	2	2	ppb	BDL	No	Aug. 04, 2004	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Nitrate (as Nitrogen)	10	10	ppm	0.061	No	Aug. 04, 2004	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (as Nitrogen)	1	1	ppm	NT			Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	50	50	ppb	BDL	No	Aug. 04, 2004	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium	2	0.5	ppb	BDL	No	Aug. 04, 2004	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

### Disinfectants and Disinfection Byproducts

Contaminant	MCL/MRDL	MCLG/MRDLG	Units	Level Detected & Range	Violation Yes or No	Sample Date	Likely Source of Contamination
Chlorine	4	4	ppm	1.2	No	Dailey	Water additive used to control microbes
Haloacetic Acids (HAA)	60	N/A	ppb	6.1	No	Running Annual Average	By-product of drinking water disinfection
TTHM [Total trihalomethanes]	80	0	ppb	9.9	No	Running Annual Average	By-product of drinking water chlorination

### Synthetic Organic Contaminants, including Pesticides and Herbicides

Contaminant	MCL	MCLG	Units	Level Detected/Range	Violation Yes or No	Sample Date	Likely Source of Contamination
2,4-D	70	70	ppb	BDL	No	Aug. 4, 2003	Runoff from herbicide used on row crops
2,4,5-TP (Silvex)	50	50	ppb	BDL	No	Aug. 4, 2003	Residue of banned herbicide
Acrylamide	TT	0	N/A		No		Added to water during sewage/wastewater treatment
Alachlor	2	0	ppb	BDL	No	Aug. 4, 2003	Runoff from herbicide used on row crops
Atrazine	3	3	ppb	BDL	No	Aug. 4, 2003	Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH)	200	0	ppt	BDL	No	Aug. 4, 2003	Leaching from linings of water storage tanks and distribution lines
Carbofuran	40	40	ppb	BDL	No	Aug. 4, 2003	Leaching of soil fumigant used on rice and alfalfa
Chlordane	2	0	ppb	BDL	No	Aug. 4, 2003	Residue of banned termiticide
Dalapon	200	200	ppb	BDL	No	Aug. 4, 2003	Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate	400	400	ppb	BDL	No	Aug. 4, 2003	Discharge from chemical factories
Di (2-ethylhexyl) phthalate	6	0	ppb	1	No	Aug. 4, 2003	Discharge from rubber and chemical factories
Dibromochloropropane	200	0	ppt	BDL	No	Aug. 4, 2003	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards

Contaminant	MCL	MCLG	Units	Level Detected/Range	Violation Yes or No	Sample Date	Likely Source of Contamination
Dinoseb	7	7	ppb	BDL	No	Aug. 4, 2003	Runoff from herbicide used on soybeans and vegetables
Diquat	20	20	ppb	BDL	No	Aug. 4, 2003	Runoff from herbicide use
Dioxin [2,3,7,8-TCDD]	30	0	ppq	NT			Emissions from waste incineration and other combustion; discharge from chemical factories
Endothall	100	100	ppb	BDL	No	Aug. 4, 2003	Runoff from herbicide use
Endrin	2	2	ppb	BDL	No	Aug. 4, 2003	Residue of banned insecticide
Epichlorohydrin	TT	0	N/A		No		Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide	50	0	ppt	BDL	No	Aug. 4, 2003	Discharge from petroleum refineries
Glyphosate	700	700	ppb	NT			Runoff from herbicide use
Heptachlor	400	0	ppt	BDL	No	Aug. 4, 2003	Residue of banned temiticide
Heptachlor epoxide	200	0	ppt	BDL	No	Aug. 4, 2003	Breakdown of heptachlor
Hexachlorobenzene	1	0	ppb	BDL	No	Aug. 4, 2003	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclo pentadiene	50	50	ppb	BDL	No	Aug. 4, 2003	Discharge from chemical factories
Lindane	200	200	ppt	BDL	No	Aug. 4, 2003	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	40	40	ppb	BDL	No	Aug. 4, 2003	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate]	200	200	ppb	BDL	No	Aug. 4, 2003	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls]	500	0	ppt	BDL	No	Aug. 4, 2003	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol	1	0	ppb	BDL	No	Aug. 4, 2003	Discharge from wood preserving factories
Picloram	500	500	ppb	BDL	No	Aug. 4, 2003	Herbicide runoff
Simazine	4	4	ppb	BDL	No	Aug. 4, 2003	Herbicide runoff
Toxaphene	3	0	ppb	BDL	No	Aug. 4, 2003	Runoff/leaching from insecticide used on cotton and cattle

### Volatile Organic Contaminants

Contaminant	MCL	MCLG	Units	Level Detected/Range	Violation Yes or No	Sample Date	Likely Source of Contamination
Benzene	5	0	ppb	BDL	No	Aug. 4, 2003	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride	5	0	ppb	BDL	No	Aug. 4, 2003	Discharge from chemical plants and other industrial activities
Chlorobenzene	100	100	ppb	BDL	No	Aug. 4, 2003	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene	600	600	ppb	BDL	No	Aug. 4, 2003	Discharge from industrial chemical factories
p-Dichlorobenzene	75	75	ppb	BDL	No	Aug. 4, 2003	Discharge from industrial chemical factories
1,2-Dichloroethane	5	0	ppb	BDL	No	Aug. 4, 2003	Discharge from industrial chemical factories
1,1-Dichloroethylene	7	7	ppb	BDL	No	Aug. 4, 2003	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene	70	70	ppb	BDL	No	Aug. 4, 2003	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene	100	100	ppb	BDL	No	Aug. 4, 2003	Discharge from industrial chemical factories
Dichloromethane	5	0	ppb	BDL	No	Aug. 4, 2003	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane	5	0	ppb	BDL	No	Aug. 4, 2003	Discharge from industrial chemical factories

Contaminant	MCL	MCLG	Units	Level Detected/Range	Violation Yes or No	Sample Date	Likely Source of Contamination
Ethylbenzene	700	700	ppb	BDL	No	Aug. 4, 2003	Discharge from petroleum refineries
Styrene	100	100	ppb	BDL	No	Aug. 4, 2003	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	5	0	ppb	BDL	No	Aug. 4, 2003	Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene	70	70	ppb	BDL	No	Aug. 4, 2003	Discharge from textile-finishing factories
1,1,1-Trichloroethane	200	200	ppb	BDL	No	Aug. 4, 2003	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane	5	3	ppb	BDL	No	Aug. 4, 2003	Discharge from industrial chemical factories
Trichloroethylene	5	0	ppb	BDL	No	Aug. 4, 2003	Discharge from metal degreasing sites and other factories
Toluene	1	1	ppm	BDL	No	Aug. 4, 2003	Discharge from petroleum factories
Vinyl Chloride	2	0	ppb	BDL	No	Aug. 4, 2003	Leaching from PVC piping; discharge from chemical factories
Xylenes	10	10	ppm	BDL	No	Aug. 4, 2003	Discharge from petroleum factories; discharge from chemical factories

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

#### Detected Unregulated Contaminants

Contaminant	MCL	MCLG	Units	Level Detected/Range	Violation Yes or No	Sample Date	Likely Source of Contamination
Nickel	N/A	N/A	Mg/l	BDL	N/A	Aug. 4, 2003	
Sodium	N/A	N/A	Mg/l	3.7	N/A	Aug. 4, 2004	

Please contact us if you have any questions or concerns.