

## Franklin County Sanitary Engineer's - District #4 PWS ID # 2501003 614-525-3940

The Franklin County Department of Sanitary Engineering has been providing clean water to your community helping to keep you and your family healthy. We take this mission very seriously. Our constant goal is to provide you with a safe and dependable supply of drinking water. This report covers January 1 through December 31st, 2010. The Franklin County Sanitary Engineers District #4 drinking water supply surpassed the strict regulations of both the State of Ohio and the U.S. Environmental Protection Agency (EPA), which requires all water suppliers to prepare reports like this annualty. The Franklin County Department of Sanitary Engineering has a current unconditioned license to operate our water

in 2010, our water department distributed 525 million gallons of water to customers. Our water source is purchased pretreated water from the City of Columbus, the Dublin Road Water Plant and distributed to Sanitary District #4. This water services customers who live in downtown Columbus, western Franklin County as well as southwestern Franklin County. The Dublin Road Water Plant relies on surface water from the Griggs and O'Shaughnessy Reservoirs on the Scioto River.

Columbus treats your water using disinfection and filtration to ramove or reduce harmful contaminants that may come from the source water.

The City of Columbus water system uses surface water from the Scioto River and the Big Walnut Creek, as well as ground water pumped from sand and gravel deposits of the Scioto River Vailey. All three sources of water have a relatively high susceptibility to contamination from spills or releases of chemicals. The ground water pumped at the Parson Avenue plant is susceptible (compared to other ground water systems) because there is no significant ciay overlying and protecting the aquifer deposits. The Scioto River and the Big Walnut Creek are even more susceptible, because they are more accessible and less protected from spills.

The drinking water source protection areas for the City of Columbus' three water sources contain numerous potential contaminant sources, especially the protection areas for the Dublin Road Water Treatment Plant (extending along the Scioto River). These include industrial activities, storm water runoff from developing areas, and a heavily traveled transportation network running alongside and over the water bodies. Run-off from agricultural fields is a concern in both the Scioto River and Big Walnut Creek watersheds.

The City of Columbus treats the water to meet drinking water quality standards, but no single treatment protocol can address all potential contaminants. The City has been proactive in pursuing measures to further protect its source waters. These include land stewardship programs and incentive-driven programs to reduce erosion and run-off of pesticides and fertilizers into the Scioto River and the Big Walnut Creek and their reservoirs. More detailed information is provided in the City of Columbus' Drinking Water Source Assessment Report, which can be viewed by calling Gary Hannahs, Walershed Manager at (614)645-1721.

if you have any questions about this report or concerning your water utility, please contact Charles McFarland, Operations Superintendent, by calling 614-525-3747 or by writing to this address: 280 East Broad Street; 2nd Floor, Room 201:Columbus, OH 43215-4562. We want our valued customers to be informed about their water utility.

Frankiln County Department of Sanitary Engineering: Stephen A. Renner, Director; Michael B. Pliutti, Assistant Director Franklin County Board of Commissioners: Martlyn Brown, President; Paula Brooks, John O'Grady

The U.S. Environmental Protection Agency (EPA) wants you to know:

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

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 what water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (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, which 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 storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses. Organic chemical contaminants, including stations, urban storm water runoff, and septic systems. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

## Franklin County Sanitary Engineers - Sanitary District #4 2010 Monitoring Results for Contaminates in Drinking Water

Some people may be more vulnerable to contaminants in drinking water than the general population, Immuno-compromised persons such as persons with cancer, organ transplants, HIV/AIDS, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791)

Columbus' water is regularly tested for organisms that could be harmful to people- including cryptosporidium (Cypto).

. While it is	sometir	nes found in t	_	ers and stre	ams, Crypto	has NEVE	R been found	d in our drinking water	
		MCLG Health	MCL EPA	Level	Range	Violation (Yes-	Year¹	Potential Source	
Contaminant	Unit	Goal	Limits	Detection	Detected	No)	Sampled	of Contamination	
The following results are from tests completed by Dublin Road Water Plant									
Microbiological Contaminants									
				0.29 Highest	0.04- 0.29				
Turbidity <sup>2</sup>	NTU	NA	TT	100% met limits		NO	2010	Soil Runoff	
Total Organic				2.35	1.80-			Naturally present	
Carbon <sup>3</sup>	TT	NA	TT	LRAA	3.08	NO	2010	in the environment	
Inorganic Contami	nants								
				0.00 A	0.80-			Erosion of natural deposits. Water additive to promote	
Fluoride	ppm	4	4	1.07	1.07	NO	2010	strong teeth.	
								Runoff from fertilizer use.	
				ř.				Leaching from septic tanks.	
Nitrate	ppm	10	10	7.1	ND-7.1	NO	2010	Erosion of natural deposits.	
Infants below	v the ag	e of six month	ns who drin	k water conta	ining nitrate	in excess o	of the MCL co	ould become seriously ill	
	and, if	untreated, ma	y die Sym	ptoms includ	e shortn <b>e</b> ss	of breath an	d blue-baby	syndrome.	
Synthetic Organic	Contain	inants	40.00		2000000		A-12		
								Runoff from herbicide used	
Atrazine	ppb	3	3	0.32	ND-1.66	NO	2010	on row crops.	
Simazine	ppb	4	4	ND	ND-0.17	NO	2010	Herbicide Runoff	
Alachlor	ppb	0	2	ND	ND	NO	2010	Agricultural Herbicide Runoff	
	Volatil	e Organic Co	ntaminates	& Disinfection	n By Produc	ts (Tested I	by Sanitary [	District #4)	
T 01		4	4	4 50		NO	0040	Water additive used to	
Total Chlorine	ppm	(MRDLG)	(MRDL)	1.52 avg.	0.28-2.1	NO	2010	control microbes.	
Haloacetic		N.		20	40.45.45	NO. "	2040	Byproduct of drinking	
Acids (HAA5)	ppb	NA	60	29 avg.	12.15-46	NO	2010	water chlorination	
Total Trihalomethanes					14.3-			Byproduct of drinking	
(TTHMs) <sup>3</sup>	ppb	0	80	50 avg.	85.6	NO	2010	water chlorination	

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Franklin County Department of Sanitary Engineering is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. 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. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

		L	ead & Cop	per Monitoring Perform	ed at Hon	ne Tap	
Contaminant	Unit	MCLG Health Goal	MCL EPA Limits	Level Detected	Violation (Yes- No)	Year <sup>1</sup> Sampled	Potential Source of Contamination
Inorganic Con	taminan	ls					Name of the last o
				0.046 (90th percentile) ND-0.062		·	Corrosion of household plumbing.
Copper	ppm	1.3	1.3 = AL	All sites below action level	NO	2008	Erosion of natural deposits.
98				ND (90th percentile)			Corrosion of household
		1		ND-1.02			plumbing.
Lead	ppb	0	15 = AL	All sites below action level	NO	2008	Erosion of natural deposits.

## Notes

- 1. The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, are more than one year old.
- 2. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
- Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys or central nervous system, and may have an increased risk of getting cancer.

## **Definitions**

Maximum Contaminant Level (MCL): 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 Goai (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 disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water. 90th Percentile: 90% of samples are equal to or less than the number in the chart.

NTU (Nepheiometric Turbidity Units): A measure of clarity.

NA: Not applicable

ND: Not detectable at testing limits.

PPB: (parts per billion); micrograms per liter (ug/l). PPM: (parts per million): milligrams per liter (mg/l).

CDC: Center for Disease Control

**EPA**: Environmental Protection Agency



Un-Regulated Substances: Unregulated contaminant monitoring
helps EPA1o determine where certain contaminants occur and
whether it needs to regulate those contaminants.

		Level		
Substance	Unit	Detected	Range	Year <sup>1</sup>
Bromodichloromethane	ppb	7.7	NA	2010
Chloroform	ppb	45	NA	2010
Dibromochioromethane	ppb	1.3	NA	2010
Hardness	ppm	121 avg.	119- 122	2010
Metolachor	ppb	<b>N</b> D	ND- 0.30	2010
рН	SU	7.8 avg.	7.7-7.8	2010
Sodium	ppm	76 avg.	55-120	2010
Metribuzin	ppb	ND	ND	2010
Bromoform	ppb	<0.5	NA	2010