

CITY OF SCHENECTADY TABLE OF DETECTED CONTAMINANTS

(See Note Section on page 2 for an explanation of levels detected)

Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit MCL,TT, or AL	Likely Source
Chloride	No	2/25/02	42 ⁴	mg/l	N/A	MCL250	Natural occurring and indicative of road salt contamination
Manganese	No	2/25/02	20 ⁴	ug/l	N/A	MCL 300	Natural occurring and indicative of Landfill Contamination
Hardness	No	2/25/02	161 ⁴	mg/l	N/A	N/A	Natural Occurring
pH	No	2/25/02	7.1 ⁴	mg/l	N/A	6.5 - 8.5	Natural Occurring
Alkalinity	No	2/25/02	165 ⁴	mg/l	N/A	N/A	Natural Occurring
Calcium	No	2/25/02	53.6 ⁴	mg/l	N/A	N/A	Natural Occurring
Fluoride	No	3/14/05	.924 ⁴	mg/l	N/A	MCL=2.2	Natural Occurring; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Sulfate	No	2/25/02	28 ⁴	mg/l	N/A	250	Natural Occurring
Dissolved Solids	No	2/25/02	285 ⁴	mg/l	N/A	500	Natural Occurring
Sodium	No	2/25/02	21.5 ³	mg/l	N/A	See Note #3	Natural occurring: road salt: water softeners, animal waste.
Copper	No	July 2004	Range .017 ² -.656 ² .527 ²	mg/l	1.3	AL=1.3	Corrosion of galvanized pipes, erosion of natural deposits.
Lead	No	July 2004	Range 0 - 36 ¹ 10 ¹	ug/l	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits.
Total Trihalomethanes	No	08/07/06 09/20/06	8.2 ⁴ 9.42 ⁴	ug/l	N/A	MCL 80	By product of drinking water disinfection
HAA5	No	08/07/06 09/20/06	29.0 ⁴ 3.0 ⁴	ug/l	N/A	MCL 80	By product of drinking water disinfection
Nitrate	No	3/14/05	.629 ⁴	mg/l	N/A	10	Fertilizer runoff
Barium	No	3/14/05	.021 ⁴	mg/l	N/A	2.0	Natural Occurring

2006



ANNUAL DRINKING WATER QUALITY REPORT

INTRODUCTION

We are very pleased to provide you with the 2006 Annual Drinking Water Quality Report. In 2006, your drinking water met all State drinking water health standards. This report is a snapshot of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to New York State standards. Our constant goal is and always has been, to provide to you a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and to protect our water resources.

If you have any questions concerning this report or concerns about your drinking water please contact the City of Schenectady, Department of Water, Room 206, City Hall, Schenectady, NY 12305. Or please call 518 - 382 - 5023. We want you to be informed about your drinking water.

WHERE DOES OUR WATER COME FROM?

In general, 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 can pick up substances resulting from the presence of animals or from human activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by Public Water Systems. The State Health Department's and the FDA's regulations establish limits for contaminant's in bottled water which must provide the same protection for public health.

Our water source is a clean and plentiful groundwater aquifer called the Great Flats Aquifer. The water from the aquifer is pumped into the system through a series of twelve 70 foot drilled wells located at the treatment plant on Rice Road in the Town of Rotterdam. The water produced by the wells is of excellent quality prior to treatment. Chlorination, fluoridation and inorganic phosphates provide the only treatment required. During 2006, our system did not experience any restriction of our water source.

FACTS AND FIGURES

Our water system serves approximately 61,821 people in the City of Schenectady through 19,000 service connections. We also serve a portion of the Town of Niskayuna and a small number of customers in the Town of Rotterdam. The total water produced in 2006 was 4,453,903,000 gallons of water. The daily average of water treated and pumped into the distribution system is 12,202,000 gallons per day. Our highest single day usage was 19,701,000 gallons. Because the majority of the residential accounts are un-metered, there is no clear record of total water consumed and billed. A recent study performed for the City estimated the un-billed water to be between 15 and 27 percent of the water produced. The un-billed water is used to flush transmission and distribution mains, for fighting fires, or is lost through leaks in the system. The City will be supporting the leak detection and flushing programs in the summer of 2007. In 2006, inside City metered water customers were charged \$1.311 per 100 cubic feet of water. One Hundred cubic feet equal's 748 gallons. A typical household on the flat rate within the City of Schenectady was charged approximately \$222.00 for water.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

In accordance with State regulations, the Schenectady Water Department routinely monitors your drinking water for numerous contaminants. We test your drinking water for inorganic contaminants, radiological contaminants, lead and copper, nitrate, volatile organic contaminants, and synthetic organic contaminants. In addition, we test seventy samples for coliform bacteria each month. The **City of Schenectady Table of Detected Contaminants** (page 4) is the table that depicts contaminants that were detected in your drinking water. The State allows 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. Some of the data, though representative of the water quality, is more than one year old and is noted. For a listing of all the parameters that we must analyze and the frequency of testing for compliance with the NYS Sanitary Code, see the **Table of Compounds Analyzed that were Below Limits of Detection** (page 3). It should be noted that all drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants.

The presence of contaminants does not necessarily pose a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791 or the Schenectady County Health Department at 518-386 - 2818.

WHAT DOES THIS INFORMATION MEAN?

As you can see by the tables, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State. Additional information is available from the Safe Drinking Water Hotline 1-800-426-4791.

IS OUR WATER MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2006, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded State and Federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immune-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 from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline 1-800-426-4791.

In accordance with the 1996 New York State Public Health Law, the following annual report has been prepared for your information.

VULNERABILITY ASSESSMENT

The City of Schenectady Water Department 2002 vulnerability assessment has been updated yearly. As a result of the assessment we have been taking steps to increase security. For security reasons the assessment is strictly confidential.

WHY SAVE WATER AND HOW TO AVOID WASTING IT

Although our system has an adequate amount of water to meet present demands, there are a number of reasons why it is important to conserve water:

- ★ Saving water saves energy and some of the costs associated with both of these necessities of life

- ★ Saving water reduces the cost of energy required to pump water and the need to construct costly new wells and pumping systems

- ★ Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential fire fighting needs are met.

- ★ The Schenectady Water Department encourages water conservation. There are a lot of things you can do to conserve water in your own home. See the following conservation tips.

- ★ Only run the dishwasher and clothes washer when there is a full load

- ★ Use water saving showerheads

- ★ Install faucet aerators in the kitchen and the bathroom to reduce the flow from 4 to 2.5 gallons per minute

- ★ Check faucets and pipes for leaks and repair all leaks promptly

- ★ Take shorter showers

- ★ Check your toilets for leaks, by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save 30,000 gallons a year.

- ★ If you have a meter, use it to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes, if it moved, you have a leak.

- ★ Adhere to the lawn sprinkling ordinance.

Lawn sprinkling with a hose or other use of water will be allowed only from May 1, 2007 to November 1, 2007 every other day. Those residences on the even numbered side of the street will be permitted sprinkling on even numbered days, the odd numbered side of the street on odd numbered days.

Lawn sprinkling shall not exceed four (4) hours per day between the hours of 7:00 AM to 9:00 AM and 7:00 PM to 9:00 PM. Observance of these restrictions will conserve energy resources while maintaining necessary water supplies for fire protection.

CLOSING

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit our customers. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future. If you have any questions please call our office at 382-5023, or visit our web site at www.cityofscheneectady.com

NOTE SECTION FOR CITY OF SCHENECTADY TABLE OF DETECTED CONTAMINANTS (Page 4)

1. The level presented represents the 90th percentile of the 30 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90 percent of the lead values detected at your water system. In this case 30 samples were collected at your water system, and the 90th percentile value was the 4th highest value.

The action level for lead was exceeded at only one of the sites tested.

2. During 2004 we collected and analyzed 30 samples for copper. The level included in the table represents the 90th percentile, the 4th highest levels detected. The action level for copper was not exceeded at any of the sites tested.

3. Water containing more than 20 mg/l should not be consumed by persons on severely restricted sodium diets; Water containing more than 270 mg/l should not be consumed by persons on moderately restricted sodium diets.

4. This result represents one sample only (Single Sample).

DEFINITIONS

Milligrams per liter (mg/l) correspond to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (ug/l) correspond to one part of liquid in one billion parts of liquid (parts per billion - ppb).

90th Percentile Value - The values reported for lead and copper represent the 90th percentiles. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

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

Maximum Contaminant Level - (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as possible.

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.

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

N/A - Not applicable

Adopt - a - hydrant

Anyone desiring to paint a fire hydrant this year will be able to do so through the Adopt-A-Hydrant program.

The Water Department will supply you with the proper paint and brush. Anyone interested in doing so, should contact the Water Department at 382-5023.



SCHENECTADY WATER DEPARTMENT PUBLIC WATER SUPPLY IDENTIFICATION NUMBER NY4600070 New York State Sanitary Code Compliance Monitoring Requirements Table of Compounds Analyzed that were Below Limits of Detection			
SYNTHETIC ORGANIC CHEMICALS		VOLATILE ORGANIC CHEMICALS	
CONTAMINANT	MONITORING	CONTAMINANT	MONITORING
Alachlor	Monitoring requirement is one sample every eighteen months. Sample results from 12/19/06 IN COMPLIANCE	Benzene	Monitoring requirement is two samples per year Sample results from Well #9 08-07-06 Well #5A 08-22-06 IN COMPLIANCE
Aldrin		Bromobenzene	
Atrazine		Bromomethane	
Chlordane		N-Butylbenzene	
Dieldrin		sec-Butylbenzene	
Endrin		Tert-Butylbenzene	
Heptachlor		Carbon Tetrachloride	
Heptachlor epoxide		Chlorobenzene	
Lindane		2-Chlorotoluene	
Methoxychlor		4-Chlorotoluene	
Metolachlor		Dibromomethane	
Metribuzin		1,2-Dichlorobenzene	
Simazine		1,3-Dichlorobenzene	
Toxaphene		1,4-Dichlorobenzene	
Aldicarb		Dichlorodifluoromethane	
Aldicarb Sulfone		1,1-Dichloroethane	
Aldicarb Sulfoxide		1,2-Dichloroethane	
Carbaryl		1,1 Dichloroethene	
Carbofuran		cis-1,2 Dichloroethene	
1,2-dibromoethane		Trans-1,2-Dichloroethene	
1,2-dibro-3-chloropropane	1,2 Dichloropropane		
2,4-D	1,3 Dichloropropane		
Dalapon	2,2 Dichloropropane		
Dicamba	1,1 Dichloropropene		
Dinoseb	1,3-Dichloropropene		
Pentachlorophenol	Ethylbenzene		
Pichloram	Isopropylbenzene		
2,4,5-TP	p-Isopropyltoluene		
Benzo(a)pyrene	Methylene Chloride		
Butachlor	n-Propylbenzene		
Di (2-ethylhexy) adipate	Styrene		
Di (2-ethylhexy) phthalate	1,1,1,2-Tetrachloroethane		
Glyphosate	1,1,2,2-Tetrachloroethane		
Hexachlorobenzene	Tetrachloroethene		
Hexachlorocyclopentadiene	Toluene		
PCB	1,2,3-Trichlorobenzene		
Propachlor	1,2,4-Trichlorobenzene		
INORGANIC CHEMICALS - PRIMARY		1,1,1-Trichloroethane	
CONTAMINANT	MONITORING	1,1,2-Trichloroethane	
Antimony	Monitoring Requirement is one sample every 3 years. Sample results from 03/14/05	Trichloroethene	
Arsenic		Trichlorofluoromethane	
Barium – see page 4	IN COMPLIANCE	1,2,3-Trichloropropane	
Beryllium		1,2,4-Trimethylbenzene	
Cadmium		1,3,5-Trimethylbenzene	
Silver		Vinyl Chloride	
Chromium		m-Xylene	
Cyanide		o-Xylene	
Mercury		p-Xylene	
Nickel		BACTERIOLOGICAL PARAMETERS	
Selenium		CONTAMINANT	MONITORING
Thalium		Total Coliform E-Coli	Monitoring requirement is 70 samples per month IN COMPLIANCE
INORGANIC CHEMICALS - SECONDARY		RADIOLOGICAL PARAMETERS	
CONTAMINANT	MONITORING	CONTAMINANT	MONITORING
Color	Monitoring is at State discretion. Every 9 years Sample results from 02/25/02	Gross Alpha Particle Activity	Monitoring requirement is one sample every four years. Sample results from 06/07/04
Odor		Radium 226 & 228	
Turbidity			
Iron	IN COMPLIANCE		IN COMPLIANCE
Zinc			
Asbestos			