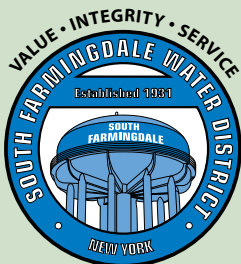


SOUTH FARMINGDALE WATER DISTRICT

2013 ANNUAL WATER QUALITY REPORT

Public Water Supply Identification No. 2902854

2013 Annual Water Supply Report



Your Neighborhood Water Supplier Does It Best!
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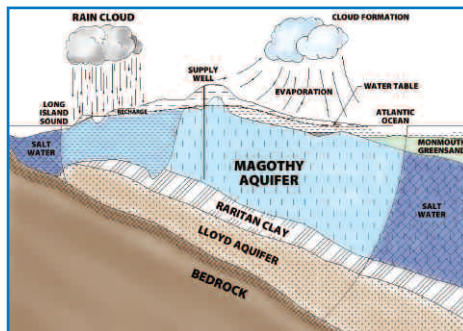
In accordance with Federal and State regulations, the Board of Water Commissioners of the South Farmingdale Water District is pleased to provide you with the 2013 Annual Water Quality Report. This in-depth report is filled with important information regarding the District's water quality, cost of water, sources of water, water treatment procedures and more. Our goal is to provide all rate-payers, whether residential or commercial, with a safe, dependable water supply throughout the year. While the District works diligently to monitor our water supply on a day-to-day basis to ensure the highest quality standards, we are also very busy planning for the future. This report will also provide you with our proactive water conservation measures designed to ensure a safe, plentiful water supply for years to come.

Source Of Our Water

All water provided through our District is groundwater pumped from 11 wells located throughout the community. These wells are drilled into the Magothy aquifer beneath Long Island, as shown in the figure below. Generally, the water quality of the aquifer is good to excellent, although there are localized areas of contamination.

In order to ensure that our tap water is safe to drink, the State and the EPA prescribe regulations that 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 contaminants in bottled water which must provide the same protection for public health.

The South Farmingdale Water District serviced 44,700 customers in 2013. The total amount of water withdrawn from the aquifer in 2013 was 1.73 billion gallons, of which approximately 91 percent was billed directly to consumers.



The Long Island Aquifer System

Cost Of Water

The District utilizes the following daily step billing schedule for residential and commercial accounts:

Daily Water Rates

Daily Usage (gallons)	Cost Per Gallon
First 66.6666	\$0.00320548 (min. charge)
Next 155.5555	\$0.00142
Next 111.1111	\$0.00170
Next 111.1111	\$0.00197
Remaining	\$0.00241

Contacts For Additional Information

Our drinking water is safe and meets all Federal and State requirements except for iron, for which the water is treated. If you have any questions about this report or your water utility, please contact Superintendent Charles Prucha at (516) 249-3330, visit our website at www.sfwater.com or the Nassau County Department of Health at (516) 227-9692. If you want to learn more, please attend any of our regularly scheduled meetings. They are normally conducted the second and fourth Tuesday of each month at 4:30 p.m. at the South Farmingdale Water District office at 40 Langdon Road, Farmingdale, NY.

The South Farmingdale Water District routinely monitors for different parameters and contaminants in your drinking water as required by Federal and State laws. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk. For more information on contamination and potential health risks, please contact the USEPA Safe Drinking Water Hotline at (800) 426-4791.

New York State Mandatory Health Advisory

Some people may be more vulnerable to disease-causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons, such as individuals undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, and some elderly people and infants may be particularly at risk for 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 at (800) 426-4791.

The USEPA established a Lead and Copper Rule that requires all public water suppliers to sample and test for lead and copper at the tap. The first testing was required in 1992. All results were excellent, indicating that the District's corrosion control treatment program was effective in preventing the leaching of lead and copper from your home's plumbing into your drinking water. Identical testing was conducted in 2012 with the same excellent results. The District will conduct its next round of sampling and testing in 2015.

Water Conservation Measures

The underground water system of Long Island has more than enough water for present water demands. However, saving water will ensure that our future generations will always have a safe and abundant water supply.

In 2013, the South Farmingdale Water District continued to implement a water conservation program in order to minimize any unnecessary water use. The pumpage for 2013 was 8 percent more than in 2012. This can most likely be attributed to the relatively hotter and drier weather during the summer of 2013.

Residents of the District can also implement their own water conservation

measures such as retrofitting plumbing fixtures with flow restrictors, modifying automatic lawn sprinklers to include rain sensors, repairing leaks in the home, installing water conservation fixtures/appliances and maintaining a daily awareness of water conservation in their personal habits.

In addition, consumers should be aware that the Nassau County Lawn Sprinkler 2 Irrigation Regulations are still in effect. Besides protecting our precious underground water supply, water conservation will produce a cost savings to the consumer in terms of both water and energy bills (hot water).



Table Of Detected Parameters

Contaminants	Violation (Yes/No)	Date of Sample	Level Detected (Maximum Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
Inorganic Contaminants							
Copper	No	June 2012	ND-0.36 0.36 ⁽¹⁾	mg/l	1.3	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	No	June 2012	ND - ND ND ⁽¹⁾	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Arsenic	No	05/17/13	ND - 1.4	mg/l	n/a	MCL = 10	Naturally occurring
Barium	No	06/11/13	ND - 0.01	ug/l	2	MCL = 2	Naturally occurring
Iron	Yes ⁽²⁾	12/02/13	ND - 750	ug/l	n/a	MCL = 300	Naturally occurring
Sodium	No	05/06/13	2.1 - 11.4	mg/l	n/a	No MCL ⁽³⁾	Naturally occurring
Zinc	No	05/06/13	ND - 0.1	mg/l	n/a	MCL = 5	Naturally occurring
Ammonia	No	05/06/13	ND - 0.2	mg/l	n/a	No MCL	Naturally occurring
Magnesium	No	05/06/13	ND - 2.0	mg/l	n/a	No MCL	Naturally occurring
Chloride	No	05/06/13	3.1 - 21.2	mg/l	n/a	MCL = 250	Naturally occurring
Manganese	No	05/06/13	ND - 40	ug/l	n/a	MCL = 300	Naturally occurring
Nickel	No	05/06/13	ND - 10	ug/l	n/a	MCL = 100	Naturally occurring
Thallium	No	06/11/13	ND - 0.4	ug/l	0.5	MCL = 2	Naturally occurring
Calcium	No	05/06/13	ND - 5.4	mg/l	n/a	No MCL	Naturally occurring
Sulfate	No	05/06/13	ND - 36.8	mg/l	n/a	MCL = 250	Naturally occurring
Volatile Organic Contaminants							
1,1-Dichloroethane	No	12/02/13	ND - 0.8	ug/l	0	MCL = 5	Industrial/Commercial discharge
Disinfection By-Product							
Total Trihalomethanes (TTHM)	No	01/04/13	ND - 1.4	ug/l	0	MCL = 80	Disinfection By-Products
Synthetic Organic Contaminants Including Pesticides and Herbicides							
None Detected	--	--	ND	--	--	--	--
Radionuclides							
Gross Alpha	No	07/23/13	0.29 - 3.27	pCi/L	--	MCL = 15	Naturally occurring
Radium 226	No	07/23/13	ND - 0.675	pCi/L	--	MCL = 5	Naturally occurring
Radium 228	No	07/23/13	0.1 - 1.03	pCi/L	--	MCL = 5	Naturally occurring
Unregulated Contaminant Monitoring Rule⁽⁴⁾							
1,4-Dioxane	No	10/10/13	ND - 1.3	ug/l	n/a	No MCL	Naturally occurring
Chlorate	No	10/10/13	ND - 270	ug/l	n/a	No MCL	Naturally occurring
Strontium	No	10/10/13	ND - 9.5	ug/l	n/a	No MCL	Naturally occurring
Bacteriological							
Total Coliform ⁽⁵⁾	No	--	Zero positive samples	Positive or Negative	n/a	MCL = Positive results in more than 5% of the monthly samples	Commonly found in the environment

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.

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.

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

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

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

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

pCi/L - pico Curies per Liter is a measure of radioactivity in water.

(1) - During 2012, we collected and analyzed 30 samples for lead and copper. The 90% percentile level is presented in the table. The action levels for both lead and copper were not exceeded at any site tested. The next sampling program for lead and copper will be conducted in 2015.

(2) - Iron is only a secondary drinking water standard. Iron has no health affects. Therefore, exceeding the MCL represents a level at which adverse aesthetic effects start to occur.

(3) - No MCL has been established for sodium. However, 20 mg/l is a recommended guideline for people on high restricted sodium diets and 270 mg/l for those on moderate sodium diets.

(4) - UCMR3 - Unregulated Contaminant Monitoring Rule 3 is a Federal water quality sampling program where water suppliers sample and test their source water for 1 year. Results will be used by the USEPA to determine if the contaminants need to be regulated in the future.

(5) - Total coliform bacteria was detected in routine monthly compliance samples collected within our distribution system. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present. Chlorination of the water supply started immediately after detection of bacteria.

Water Treatment

To enhance water quality, the South Farmingdale Water District treats water as it is pumped from all District wells. The pH of the pumped water is adjusted upward to reduce corrosive action between the water and water mains and in-house plumbing. South Shore area wells (including those of the South Farmingdale Water District) have high iron in the raw well water. Iron is an aesthetic problem and is not health related. The District sequesters the iron by the addition of Aqua-Mag (linear chain phosphate) to keep the iron in solution and prevent the staining of laundry and plumbing fixtures.

The District also operates three (3) iron removal treatment facilities at Plant Nos. 2, 5 and 6 and one (1) granular activated carbon treatment system to remove 1,1-Dichloroethane (1,1-DCA) from well No. 5-1 at Plant No. 5. The raw water concentration is below the maximum contaminant level, but the District treats 1,1-DCA to a concentration below the detection limits. The District recently completed the construction of a dual treatment iron removal and air stripping for volatile organic contaminant treatment facility at Plant No. 1 for Well Nos. 1-3 and 1-5. The District also adds small amounts of sodium hypochlorite (chlorine) as a disinfecting agent and to prevent growth of bacteria in the water distribution system.

Water Quality

In accordance with State regulations, South Farmingdale Water District monitors your drinking water on a regular basis using more than 135 parameters. We test your drinking water for Coliform bacteria, turbidity, inorganic contaminants, lead and copper, nitrate, volatile organic contaminants, total trihalomethanes and synthetic organic

contaminants. The “Table Of Detected Parameters” presented on page 3 depicts which contaminants were detected in your drinking water. It should be noted that many of these parameters are found naturally in all Long Island drinking water and do not pose any adverse health effects.

Source Water Assessment

The NYSDOH, with assistance from the local health department, has completed a source water assessment for this system, based on available information. Possible and actual threats to our drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well’s contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become, contaminated. See the section entitled “Water Quality” for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

Our drinking water is derived from 11 wells. The source water assessment has rated all but one (1) of the wells as having a very high susceptibility to industrial solvents and a high susceptibility to nitrates.

The elevated susceptibility to industrial solvents and nitrates is due primarily to point sources of contamination related to commercial/ industrial facilities and related activities in the assessment area. In addition, the elevated susceptibility to nitrates is due to residential land use and related practices, such as fertilizing lawns, in the assessment area.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting the District.

Copies of a Supplemental Data Package, which includes the water quality data for each of our supply wells utilized during 2013, are available at the South Farmingdale Water District office and the Farmingdale Public Library.

South Farmingdale Water District works very diligently to provide the highest quality water to every tap throughout our community. We ask that all our customers help us protect our water resources, which are the heart of our community, our way of life and our children’s future.

The South Farmingdale Water District conducts over 10,000 water quality tests throughout the year, testing for over 130 different contaminants which have been undetected in our water supply including:

Cadmium	Metolachlor	Dichloroacetic Acid	1,3-Dichloropropane
Chromium	Metribuzin	Trichloroacetic Acid	Chlorobenzene
Fluoride	Butachlor	Dibromoacetic Acid	1,1,1,2-Tetrachloroethane
Mercury	2,4-D	Total Haloacetic Acid	Bromobenzene
Selenium	2,4,5-TP (Silvex)	Chloroform	1,1,2,2-Tetrachloroethane
Silver	Dinoseb	Bromodichloromethane	1,2,3-Trichloropropane
Color	Dalapon	Gross Beta	2-Chlorotoluene
Turbidity	Picloram	Radium 226	4-Chlorotoluene
Odor	Dicamba	Dichlorodifluoromethane	1,2-Dichlorobenzene
Ammonia	Pentachlorophenol	Chloromethane	1,3-Dichlorobenzene
Nitrite	Hexachlorocyclopentadiene	Vinyl Chloride	1,4-Dichlorobenzene
Nitrate	bis(2-Ethylhexyl)adipate	Bromomethane	1,24-Trichlorobenzene
Total Alkalinity	bis(2-Ethylhexyl)phthalate	Chloroethane	Hexachlorobutadiene
Detergents (MBAS)	Hexachlorobenzene	Trichlorofluoromethane	1,2,3-Trichlorobenzene
Free Cyanide	Benzo(A)Pyrene	Chlorodifluoromethane	Benzene
Antimony	Aldicarb Sulfone	1,1-Dichloroethene	Toluene
Beryllium	Aldicarb Sulfoxide	Methylene Chloride	Ethylbenzene
Perchlorate	Aldicarb	Trans-1,2-Dichloroethene	M,P-Xylene
Lindane	Total Aldicarbs	cis-1,2-Dichloroethene	O-Xylene
Heptachlor	Oxamyl	2,2-Dichloropropane	Styrene
Aldrin	Methomyl	Bromochloromethane	Isopropylbenzene (Cumene)
Heptachloro Epoxide	3-Hydroxycarbofuran	1,1,1-Trichloroethane	N-Propylbenzene
Dieldrin	Carbofuran	Carbon Tetrachloride	1,3,5-Trimethylbenzene
Endrin	Carbaryl	1,1-Dichloropropene	Tert-Butylbenzene
Methoxychlor	Glyphosate	1,2-Dichloroethane	1,2,4-Trimethylbenzene
Toxaphene	Diquat	Trichloroethene	Sec-Butylbenzene
Chlordane	Endothall	1,2-Dichloropropane	4-Isopropyltoluene (P-Cumene)
Total PCBs	1,2-Dibromoethane (EDB)	Dibromomethane	N-Butylbenzene
Propachlor	1,2-Dibromo-3-Chl.Propane	Trans-1,3-Dichloropropene	Methyl Tert.Butyl Ether (MTBE)
Alachlor	Dioxin	cis-1,3-Dichloropropene	
Simazine	Chloroacetic Acid	1,1,2-Trichloroethane	
Atrazine	Bromoacetic Acid	Tetrachloroethene	