Information for Persons with Compromised **Immune Systems**

Some people are more vulnerable to contaminants in drinking water than the general population. Imunocompromised 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 about drinking water from their health care providers. EPA/CDC (Center for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791 or www.epa. gov/safewater/hotline.

Source Water Assessment and Protection

The Massachusetts DEP has prepared a Source Water Assessment Program (SWAP) Report for the Hyannis Water System. The report assesses the susceptibility of public water supplies to contamination and makes recommendations. This report is available from the Hyannis Water System located at 47 Old Yarmouth Road in Hyannis, the local Board of Health and also at the DEP website: http://www.mass.gov/dep/water/drinking/

household hazardous materials usage and storage, and

wells in our system by the DEP due to the absence of hydrogeologic barriers, i.e., clay, in the Cape Cod Aquifer. There are activities and land uses within the Zone I, a 400 ft. radius around each well head, and the Zone II, the aquifer recharge area, that can contribute to drinking water contamination. Examples include local roads and power line easements in the Zone I, transportation corridors, residential septic systems, heating oil storage,

A susceptibility ranking of HIGH was assigned to all

sourcewa.htm#reports.

2023 Hyannis Water System improvements

In 2023 the Hyannis Water System's capital improvements included finalizing the replacement of water mains at the intersection of Route 28 and Yarmouth Road as part of the Mass DOT intersection improvements and the installation of new water mains on Route 28 to connect dead ends in the water system to improve fire flows and water quality.



Carbon filtration vessels, maintenance and cleaning efforts

How Many Times a Day Do You Turn on the Faucet?

The average American home uses about 100 to 130 gallons of water a day. Did you know that only 1% of our in-home water use is for drinking? The majority of our daily water consumption, about 75%, is used in the bathroom. Did you know that 14% of in-home water use is wasted by leaking taps and toilets? Conserving water is as simple as repairing leaky faucets and toilets, taking shorter showers, not leaving water running while brushing teeth, washing hands, washing fruits and vegetables. Learn more about using water wisely at www.USEPA/

WaterSense.

The exposure effort of a paved-over curb stop valve in Hyannis Hyannis Water Board Samuel Wilson, Chair • Louise O'Neil, Vice-chair



Jonathan Jaxtimer, Member • Amy Wrightson, Member

Timothy Stump, Member

Este relatório contém informações

importantes sobre a água potável. Ter

alguém que traduzi-lo para você, ou

falar com alguém que entende-lo.

system to have the ability to draw water as a backup Town of Yarmouth water system and the COMM. water

Water system interconnections are established with the

Mary Dunn Tank # 2 - 1 million gallons, Maher - 800,000

Mary Dunn Road: Mary Dunn Tank # 1 - 370,000 gallons,

There are also four water storage tanks. Two located on

(4020004-01g), Straightway Well (4020004-12g), and the

Mary Dunn Well # 3 (4020004-08g), Straightway Well # 1

1 (4020004-04g), Mary Dunn Well # 2 (4020004-05g),

02g), Maher Well # 3 (4020004-11g), Mary Dunn Well

Well # 1 (4020004-07g), Maher Well # 2 (4020004-

(4020004-10g), Hyannisport Well (4020004-03g), Maher

Part of the Cape Cod Aquifer. The wells are: Airport # 1

of Barnstable and draw water from the Sagamore Lens,

from 11 groundwater wells that are located in the Town

gallons and Straightway - 400,000 gallons.

Simmons Pond Well (4020004-06g).

water supply.



Hyannis Water System PWS ID: #4020004

Report



Hyannis Water System Operated by Veolia

47 Old Yarmouth Road

(508) 775-0063

ANNUAL









Using water wisely benefits you and the environment.

working with the Town of Yarmouth to protect Zone II areas.

In conjunction with its certified operator, Veolia, the Hyannis Water System is addressing the concerns stated

in the SWAP Report and welcomes your input to our

planning. If you have questions, please contact Kevin

(508) 775-0063 for additional copies.

report are available upon request; please contact

Hyannis Water System. Additional copies of this

This report was prepared by Veolia for the

£900-511-805

Hans Keijser, Supervisor, Water Supply Division

Please contact:

Questions about this report

Department of Public Works, Water Supply Division.

with oversight provided by the Town of Barnstable

maintained by a private company, Veolia,

The Hyannis Water System is operated and

Hyannis Water System

established by the American Water Works Association.

Chemicals also must meet the performance standards

by the American Vational Standards Institute (AVSI).

International) or Underwriters Laboratory, both accredited

Sampson at (508) 775-0063

acquiring and protecting land within Zone I areas, and

stormwater from roads and lawns within the Zone II. The Hyannis Water System was commended by the Massachusetts DEP for posting water protection signs,

Vater Treatment

maintained. quantities to ensure that your water quality is consistently the Hyannis communities, chemicals are added in safe In our effort to supply safe, clean and healthy water to

that this is an effective and safe treatment process. throughout the Hyannis Water System has demonstrated to raise the pH to neutral or slightly alkaline. Testing reduce this leaching, your water is chemically treated active leaching of lead and copper into your water. To naturally corrosive (pH of less than 7.0). This can cause Many drinking water sources in New England are

it enters the distribution system. process and then adding a disinfectant to the water before chemicals are removed from the water using an aeration Compounds (VOCs) in the Maher well field. These have contributed to the detection of Volatile Organic Past commercial activities near the Hyannis Airport

contamination. of the Hyannis Water System wells to remove PFAS Activated carbon filtration systems are installed on all

Organizations: National Sanitation Foundation (NSF for water treatment by one or more of the following All chemicals used for the corrosion control are approved

Hyannis Water System Operations

.noisivid ylqqu2 by the Barnstable Department of Public Works Water distribution system. Oversight of the contract is provided day operations of the public water supply treatment and service, billing and all other duties required for the day to painting, meter installation and maintenance, customer rehabilitation of four system wells per year, hydrant system, fire hydrants and gate valves, the complete services, inspection and maintenance of the distribution system's pumping stations, cross connection control and maintenance of the water treatment plants and the now Veolia. The operations contract includes operations 16, 2015 United Water was consolidated under Suez and Hyannis Water System on July 1, 2009. As of November United Water Environmental Services began operating the

Saturday 8 AM to 12 PM M9 2 of MA 8 years friday 8 AM to 2 PM **Office Hours**

Staff is available 24/7 £900-*SLL* (80*S*) In the event of any emergency call:

The Hyannis Water System continuously strives to VilleuQ Nater Quality

Act in 1974 and amended in 1986 and 1996.

Department of Environmental Protection.

provide the same protection for public health.

Environmental Protection Agency and Massachusetts

Quality Standards set forth by the United States

The Hyannis Water System meets all primary Water

establish the limits for contaminants in bottled water to

Massachusetts Department of Public Health regulations

The Food and Drug Administration (FDA) and the

in water provided by all public drinking water systems.

regulations that limit the amount of certain contaminants

U.S. Environmental Protection Agency (EPA) prescribe

Department of Environmental Protection (DEP) and

To ensure tap water is safe to drink, the Massachusetts

enacted by the U. S. Congress as the Safe Drinking Water

very closely. The standards that we operate under were

monitor all our water sources and distribution system

water quality standards for safe drinking water. We

produce the highest quality water that meets or surpasses

Report on Water Quality

in meeting the challenges of source water protection. best quality drinking water possible. We remain vigilant our high standards in an effort to continue delivering the delivered to your home or business. We have maintained water and the process by which safe drinking water is hope you will find it helpful to know the sources of your on testing done throughout 2023 as well as prior years. We water quality report. The statistics in this report are based The Hyannis Water Board is proud to present its annual

Water Supply Division at 508 775-0063 Call Hans Keijser, Supervisor, Should you ever have questions, we are available to assist you. WaterBoard/?brd=Hyannis+Water+Board. <u>-einneyH/eu.em.eldefenred.nwof.www//:qffd</u> on the Town of Barnstable website: A schedule of these meetings is posted Our meetings are open public meetings on the information contained in this report. We encourage you to share your thoughts with us Opportunities for Public Participation

Where Does My Water Come From?

approximately 9 square miles. The water is obtained Hyannisport, and West Hyannisport comprising populated residential and commercial areas of Hyannis, The Hyannis Water System supplies the most densely

Microbial Results	Highest % Positive in a Month	Positive in a Range		Violation	Possible Source of Contamination			
otal Coliform Bacteria **	0.0%	0%	TT N/A I		No	Naturally present in the environment		
coli (in ground water source) **	0%	0%			No	Human and animal fecal waste		
mpliance with the Fecal Coliform / E.coli MCL	is determined upon	additional rep	eat testing.					
							bes in these wastes can cause short-term effects, such as diarrhea, cramps	
sea, headaches, or other symptoms. They may po	ose a health risk for in	ants, young ch	nildren, some elderl	y, and people v	# of Sites	compromised imm	une systems.	
		90th	Action	# of Sites	Above Action			
Lead & Copper	Dates Collected		Level MCLC		Level	Violation	Possible Source of Contamination	
Lead (ppm)	8/1/2023	0	0.015 0	30	0	No	Corrosion of household plumbing systems: Erosion of natural depos	
Copper (ppm)	8/1/2023	0.11	1.3 1.3	30	0	No	Corrosion of household plumbing systems: Erosion of natural depos	
vice lines and home plumbing. Hyannis Water Sy	ystem is responsible f are by flushing your tag	or providing hig for 30 second	gh quality drinking v Is to 2 minutes befo	vater, but cann ore using water	ot control the for drinking o	variety of materia r cooking. If you	trinking water is primarily from materials and components associated with Is used in plumbing components. When your water has been sitting for seve are concerned about lead in your water, you may wish to have your water ine or at <u>http://www.epa.gov/safewater/lead</u> .	
	S	UMMAR Highest	Y OF FINISH	IED WATI	ER CHAF			
egulated Contaminants	Detect		Range Detected	d MCL	MCL MCLG	Violation	Possible Source of Contamination	
Inorganic Contamin I-Dioxane (ppb)	iants:		ND - 0.14	0.300			ilizer used in processing of paper, cosmetics, shampoos, coolant	
	Quarterly(2023)	0.14			0.3 ppb		Discharge of drilling wastes; discharge from metal refineries; erosio	
rium (ppm)	10/3/2023	0.018	N/A	2	2	No	natural deposits Corrosion of galvanized pipes;erosion of natural deposits;discharge	
admium (ppm) odium** (ppm)	10/3/2023 10/3/2023	ND 57	N/A N/A	0.004	0.005 20	No Yes	from metal refineries;runoff from waste batteries and paints Road salting; erosion of natural deposits	
senic (ppm)	10/3/2023	ND	ND	0.01	0.1	No	Run off from orchards; and from glass& electronics production wastes. Erosion of natural deposits.	
Joride (ppm)	10/3/2023	ND	N/A	4	4	No	Discharge from fertilizer and aluminum factories; erosion of natur deposits.	
							Discharge from petroleum and metal refineries;Erosion of natural	
lenium (ppm)	10/3/2023	ND	ND	0.05	0.05	No	deposits; Discharge from mines Runoff from fertilizer use: leaching from septic tanks; sewage; erosi	
itrate* (ppm)	10/3/2023	4.2	ND-4.2	10	10	No	of natural deposits Rocket propellants, fireworks, munitions, flares, blasting agents *(se	
erchlorate*** (ppb)	7/11/2023	0.26	ND26	2	-	No	note below)*	
*Nitrate							age. High nitrate levels in drinking water can cause blue baby syndrome. Nit saring for an infant, you should ask for advice from your health care provider	
***Perchlorate (Various Chemical Abstract Service Registry Numbers (CASRN) for different chemical species) Organic Contamina trachloroethylene (PCE) (ppb)	perchlorate toxicity. 'J' values are require ants: 1/25/2023	d when the res		MDL(0.012) an	d below the M	IRL(0.05)		
omodichloromethane (ppb)				5		No	Discharge from factories and dry cleaners	
	7/18/2023	ND	ND - 0.63 ND	5 NA	- NA	No No	Discharge from factories and dry cleaners By-product of drinking water chlorination	
	7/18/2023 7/18/2023 7/18/2023	ND ND ND		_	- NA NA NA			
bromochloromethane	7/18/2023	ND	ND ND	NA NA NA NA	NA	No No	By-product of drinking water chlorination By-product of drinking water chlorination	
bromochloromethane omoform (ppb) nloroform (ppb)	7/18/2023 7/18/2023 7/18/2023 7/18/2023	ND ND	ND ND ND	NA NA NA	NA NA	No No No	By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination	
bromochloromethane omoform (ppb) nloroform (ppb) Stage 2 Disinfectants and Disinfe	7/18/2023 7/18/2023 7/18/2023 7/18/2023	ND ND ND	ND ND ND ND	NA NA NA ORSG	NA NA NA	No No No	By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination	
bromochloromethane omoform (ppb) Stage 2 Disinfectants and Disinfectants Norine (ppm) 'HMs (Stage 2) otal Trihalomethanes] (ppb)	7/18/2023 7/18/2023 7/18/2023 7/18/2023 ection Byproducts	ND ND ND ND	ND ND ND ND	NA NA NA ORSG 70	NA NA NA NA	No No No No	By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination	
bromochloromethane omoform (ppb) Stage 2 Disinfectants and Disinf lorine (ppm) HMs (Stage 2) otal Trihalomethanes] (ppb) VA5s (Stage 2) Haloacetic Acids	7/18/2023 7/18/2023 7/18/2023 7/18/2023 ection Byproducts 4th Quarter	ND ND ND 0.87	ND ND ND ND 0.81-0.87	NA NA NA ORSG 70 4	NA NA NA NA	No No No No No	By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination Water additive used to control microbes	
bromochloromethane omoform (ppb) Stage 2 Disinfectants and Disinfe Jorine (ppm) HMs (Stage 2) otal Trihalomethanes] (ppb) AA55 (Stage 2) Haloacetic Acids AA5 (ppb) Nate highest detected value is highest Running Annual Ave	7/18/2023 7/18/2023 7/18/2023 7/18/2023 ection Byproducts 4th Quarter Quarterly Quarterly arage (RAA). ***Local Ru	ND ND ND 0.87 2.2 1.1 nning Annual Av	ND ND ND ND 0.81-0.87 ND-2.2 ND-1.1	NA NA NA ORSG 70 4 80	NA NA NA NA	No No No No No No	By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination Water additive used to control microbes By-product of drinking water chlorination	
ibromochloromethane romoform (ppb) Stage 2 Disinfectants and Disinfe nlorine (ppm) THMs [Stage 2) otal Trihalomethanes] (ppb) AA5s (Stage 2) Haloacetic Acids HAA5) (ppb) Note highest detected value is highest Running Annual Ave Note: THM ,HAA and Chlorine minimum and maximum leve econdary Contaminants	7/18/2023 7/18/2023 7/18/2023 7/18/2023 ection Byproducts 4th Quarter Quarterly Quarterly arage (RAA). ***Local Ru is in the ranges of results Date(s) Collected	ND ND ND 0.87 2.2 1.1 nning Annual Av are site specific. Highest Detect Value	ND ND ND 0.81-0.87 ND-2.2 ND - 1.1 erage Range Detectet	NA NA NA ORSG 70 4 80 60	NA NA NA NA	No No No No No No No	By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination Water additive used to control microbes By-product of drinking water chlorination By-product of drinking water chlorination By-product of drinking water chlorination (TT)	
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bromochloromethane omoform (ppb) Stage 2 Disinfectants and Disinf Jorine (ppm) HMs (Stage 2) tal Trihalomethanes] (ppb) VA5s (Stage 2) Haloacetic Acids AAS) (ppb) Vate highest detected value is highest Running Annual Ave ate: THM ,HAA and Chlorine minimum and maximum leve condary Contaminants agnesium (ppm) Icium (ppm)	7/18/2023 7/18/2023 7/18/2023 7/18/2023 ection Byproducts 4th Quarter Quarterly Quarterly Quarterly Quarterly arage (RAA). ***Local Ri Is in the ranges of results Date(s) Collected 10/18/2023 10/18/2023	ND ND ND 0.87 2.2 1.1 nning Annual Av are site specific Highest Detect Value 4.5 90 16	ND ND ND ND 0.81-0.87 ND-2.2 ND-1.1 erage Range Detectet 2.6-4.5 32-90 3.4-16	NA NA NA NA ORSG 70 4 80 60	NA NA NA - - ORSG - NA	No No No No No No No No No No	By-product of drinking water chlorination Water additive used to control microbes By-product of drinking water chlorination I and Organic Matter I and Organic Matter	
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egulated Contaminant		Range Detected ppt	ppt	ppt	Possible Source of Contamination Man-made chemicals. Used as	Health Effects Long-term exposure to PFOS and
FOS, PFOA, PFNA, PFHxS, PFHpA,PFDA	Quarterly	ND	0.0 *	20	surfactants to make products stain or water resistant, in fire-fighting foam, for industrial purposes, and as a pesticide. Used in fluoropolymers (such as teflon) cosmetics, greases and lubricants, paints, adhesives and photographic films. PFOS U.S. manufacturing phased out in 2002; PFOS may still be generated incidentally or in imported products.	PFOA in drinking water may affect the liver, cholesterol and thyroid hormone levels. Some studies indicate that exposure to elevated levels of PFOS and PFOA could cause immunologica effects, developmental effects and
erfluoroHexanoic (PFHxA)	Quarterly	ND-5.50	2.545	**		Based on studies of laboratory animals, people exposed to elevated levels of PFIXA for several years could experience effects on the liver. is less toxic and is cleared from the body much faster than PFOS, PFOA and other longer-chain PFAS.

SAFE DRINKING WATER ACT – WATER QUALITY STANDARD DEFINITIONS

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

HA: Health Advisory.

Massachusetts Maximum Contaminant Levels (MMCL): The Massachusetts maximum contaminants listed in the drinking water regulations consist of promulgated US EPA MCLs which have become effective, plus a few MCLs set specifically by Massachusetts.

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 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.

Minimum Detection Limit (MDL): Is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte is greater than zero.

Secondary Maximum Contaminant Level (SMCL): These standards are developed to protect the aesthetic qualities of drinking water and are not health based.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of disinfectant is necessary for control of microbial contaminants

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 to control microbial contamination.

Primary Standards: Federal drinking water regulations for substances that are health-related. Water suppliers must meet all primary drinking water standards.

Secondary Standards: Federal drinking water measurements for substances that do not have an impact on health. These reflect aesthetic qualities such as taste, odor and appearance. Secondary standards are recommendations, not mandates.

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

Massachusetts Office of Research and Standard Guideline (ORSG): This is the concentration of a chemical in drinking water, at or, below which, adverse, non-cancer health effects are unlikely to occur after chronic (lifetime): exposure. If exceeded, it serves as an indicator or the potential for further action.

Third Unregulated Contaminant

Monitoring Rule (UCMR3): As required by US Environmental Protection Agency (EPA), our water system has sampled for a series of unregulated contaminants. Unregulated contaminants are those that don't yet have a drinking water standard set by EPA. The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a public health protection standard.

KEY

CU: Color unit.

NA: Not applicable.

ND: Not detected.

particularly in women who are pregnant or nursing, and in infants. In using the sum of six PFAS compounds, the new standard protects public health for sensitive subgroups including pregnant women, nursing mothers and infants. Please consult your health practitioner if you have any health related questions. For a consumer factsheet on PFAS see: https://www.mass.gov/doc/massder fact-sheet-pfas-in-drinking-water-questions-and-answers-for-consumers/download

* Running Annual Average** There is no ORS Guidline or UCMR3 reference concentration health benchmark for this compound. However, the Minnesota Department of Health established a drinking water guidance value of 2,000 ppt for PFBS. See http://www.health.state.mn.us/divs/eh/risk/guidance/gw/pfbsinfo.pdf_EPA also has draft toxicity assesments for PFBS at http://www.epa.gov/pfas/genx-and-draft-toxicity-assesments

Water Source Characteristics

The sources of drinking water (for both tap and bottled water) include rivers, lakes, streams, ponds, springs, reservoirs 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 materials, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

- · Microbial contaminants, such as viruses and bacteria, which may come from sewer 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 synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production. These contaminants can also come from gasoline storage, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil or gas production and mining activities.

For Your Information

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these 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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

Where to go for more information: The Massachusetts DEP at (617) 292-5885 or www.state.ma.us/dep or the Massachusetts Drinking Water Education Partnership at www.madwep.org.

Ug/L: Micrograms per liter=ppb ppb: Parts per billion. The equivalent of one second in 32 years. ppm: Parts per million. The equivalent of one second in 12 days. ppt: Parts per trillion. pCi/L: Picocuries per liter. The Equivalent of one second in 32 million years. NTU: Nephelometric Turbidity Unit. TON: Threshold Odor Number. TI: Treatment Technique.