Office of the City Manager

Brian J. Chapman

287 East Huron Avenue
Vassar, MI 48768
(989) 823-8517

Residents of the City of Vassar,

With the recent concerns expressed regarding water and fluoride, City Staff and I have put together a question and answer sheet to help residents better understand the water system. If residents have any issues or concerns regarding their water or any service provided by the City of Vassar, please do not hesitate to call City Hall. For us to better serve you and to correct any issues, we have to have an opportunity to discuss what specifically is happening, when it happens, and where it is happening. By only receiving general comments about issues, we cannot properly diagnose a problem and have it corrected.

Again, if any resident has any issues, concerns, or ideas that they would like to discuss, please do not hesitate to call City Hall or stop by my office. We are here to assist you in any way that we can.

Thanks,

Brian Chapman
City Manager

Does the City of Vassar add fluoride to the water?

No.

Is there fluoride in the City's water?

Yes. The fluoride found in the City's water occurs naturally as most sources of fresh water have some concentration of fluoride.

Where does the drinking water come from?

The City draws water from underground aquafers through several wells. These wells are similar to a private residence outside the City limits.

How much fluoride is in the water?

Every year the City submits water samples to the Department of Environmental Quality (DEQ) to test for different substances such as chloride, iron, nitrate, sodium, and fluoride. The City's most recent water testing was completed August 19th, 2015. During this process, a sample of water is collected from each well site and sent to an independent lab for testing. The following list shows the amount of fluoride at each well site that is actively being used.

Well 1 – 0.82 mg/l
Well 5 – 0.85 mg/l
Well 7 – 1.0 mg/l

The most recent DEQ report has been included with this FAQ as attachment 1.

The Centers for Disease Control and Prevention (CDC) says the fluoride level for Vassar is 1.3 mg/l. Why is there a discrepancy?

The report from the CDC that indicates a higher fluoride level (attachment 2) is jointly developed by the Michigan Department of Health and Human Services (MDHHS). A phone call to the point of contact for the MDHHS, Sandy Sutton, indicated that the data may not be valid as it is uncertain when the data was collected. In an email addressed to the City Manager (attachment 3), Ms. Sutton indicates that the CDC database has been developed to report fluoride numbers for water systems that add fluoride during the treatment process. Since Vassar does not add fluoride to the water, the data point has not been updated. She further explains in her email that the DEQ will provide information to the CDC to update the report.

Why does the City add chlorine to the water?

The City adds chlorine to the water to help eliminate any disease-causing pathogens, such as bacteria, viruses, and protozoans, that commonly grow in water supply reservoirs, on the walls of water mains and in storage tanks.

Who should I contact if my water has a funny smell, taste, or appearance?

A change in your water's taste, color, or smell needs to be reported to City Hall. Individuals can report issues by calling City Hall at (989) 823-8517 or by email at cityoffices@cityofvassar.org. If residents leave a message please include your name, address, a phone number where you can be reached at, and a description of the problem. Typically the City will send an employee with the Water Department to your residence to check out the problem. Without this site visit, the City can't determine the cause of the issue.

What should I do if I have water pressure issues?

Individuals experiencing a drop in water pressure should contact City Hall. The City will send an employee to your residence to help determine if it's a water system problem or an issue with your residence. Most issues with water pressure can be resolved the same day by calling City Hall.

Why does my water change color sometimes?

There are a number of reasons why a residence may have discolored water. If you are experiencing discolored water, you should contact City Hall as soon as possible. An extreme example of discolored water could be from an unknown break in a water line. A more common reason has to do with the age of the infrastructure and the closing of the foundry.

When the foundry was open, the water distribution system had a high rate of flow throughout all the pipes helping to keep the system clean and any sediment build up minimized. With the foundry closed, the south portion of the City no longer has a strong flow and heavy sediment collects on the bottom of the pipes. A good analogy would be that of a river. A river with high rate of flow typically has a clean, rocky bottom. Rivers with a low rate of flow typically has a lot of sediment built up on the bottom of the river. When the City has a surge in the system, typically caused by firefighters drawing large amounts of water through the system, the low flow parts of the system quickly increase, picking up any loose sediment along the pipes and discoloring water throughout the system. Residents that have discolored water should than flush their system by running cold water out of their faucets. Residents won't incur additional costs to flush their home system as the water rate for residential units is based on a flat fee and not by gallons used.

What is the City doing to help address some of these problems?

The City continuously reviews the well sites, treatment process, and distribution system to ensure residents are receiving safe drinking water. Without residents calling City Hall to communicate issues, the City is unaware of any smell, taste, or discoloration issues and is unable to make any adjustments. Once the City receives a complaint or issue, the City can start to diagnose a root cause and address the problem.

The City is also taking a look at its entire underground infrastructure system to identify any unknown issues and to develop a replacement and improvement plan. The City has been awarded a grant through the State to televise and document the entire water, sewer, and stormwater system to better understand the quality of our aging infrastructure. Most of the City's infrastructure is nearing the end of its "useful life" and will need to be replaced in the coming years. This grant program will help us to identify needs within the system so we can systematically improve the City's infrastructure.

What should I do if I want more information regarding the City's water system?

Residents wishing to learn more about the City's water system, or any aspect of their local government, should call City Hall. City Staff are more than happy to assist residents in learning more about the services provided by the City of Vassar.

Attachment 1

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY

USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF78741

Official Laboratory Report

Report To: CARL J MILLER
287 E HURON AVE
VASSAR MI 48768

System Name/Owner:	CITY OF VASSAR	WSSN/Pool ID:	6780
Collection Address:	727 CASS AVE,VASSAR	Source:	TYPE I
Collected By:	CARL J MILLER	Site Code:	TP008
Township/Well#/Section:	/1/	Collector:	Public Water Supply Operator
County:	Tuscola	Date Collected:	08/18/2015 07:45
Sample Point:	POE	Date Received:	08/19/2015 12:49
Water System:	Public System Well	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Chloride	50	08/19/2015	4		SM 4500-Cl E	7647-14-5
Fluoride	0.82	08/19/2015	0.1	4.0	SM 4500 FC	16984-48-8
Hardness as CaCO3	256	08/19/2015	20		SM 2340 C	HARD-00-C
Iron (automated)	0.3	08/19/2015	0.1		SM 3500 FeB	7439-89-6
Nitrate as N	Not Detected	08/19/2015	0.4	10	10-107-04-2-B	14797-55-8
Nitrite as N	Not detected	08/19/2015	0.05	1	10-107-04-2-B	14797-65-0
Sodium (automated)	57	08/19/2015	5		SM 3500 NaB	7440-23-5
Sulfate	36	08/19/2015	10		SM 4500 SO4E	14808-79-8

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Tuscola County Health Dept.
1309 Cleaver Rd
Caro, MI 48723
989 673-8114

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF78740

Official Laboratory Report

Report To: CARL J MILLER
287 E HURON AVE
VASSAR MI 48768

System Name/Owner:	CITY OF VASSAR	WSSN/Pool ID:		
Collection Address:	5515 S VASSAR RD,VASSAR	Source:	TYPE I	
Collected By:	CARL J MILLER	Site Code:	DBP1	
Township/Well#/Section:	//	Collector:	Other	
County:	Tuscola	Date Collected:	08/18/2015	09:20
Sample Point:	UTILITY ROOM	Date Received:	08/19/2015	12:48
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring	

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Dalapon and Haloacetic						
Bromoacetic acid	Not Detected	08/21/2015	0.001		EPA 552.1/552.2	79-08-3
Bromochloroacetic acid	0.002	08/21/2015	0.001		EPA 552.1/552.2	5589-96-3
Chloroacetic acid	Not Detected	08/21/2015	0.002		EPA 552.1/552.2	79-11-8
Dalapon	Not Detected	08/21/2015	0.001	0.2	EPA 552.1/552.2	75-99-0
Dibromoacetic acid	0.002	08/21/2015	0.001		EPA 552.1/552.2	631-64-1
Dichloroacetic acid	0.002	08/21/2015	0.001		EPA 552.1/552.2	79-43-6
Total Haloacetic Acids (five)	0.004	08/21/2015	NA	0.060	EPA 552.1/552.2	THA-00-C
Trichloroacetic acid	Not Detected	08/21/2015	0.001		EPA 552.1/552.2	76-03-9
Total Trihalomethanes						
Bromodichloromethane	0.011	08/21/2015	0.0005	0.080	EPA 524.2	75-27-4
Bromoform	0.010	08/21/2015	0.0005	0.080	EPA 524.2	75-25-2
Chlorodibromomethane	0.014	08/21/2015	0.0005	0.080	EPA 524.2	124-48-1
Chloroform	0.013	08/21/2015	0.0005	0.080	EPA 524.2	67-66-3
Total Trihalomethanes	0.0480	08/21/2015	0.0005	0.080	EPA 524.2	TTHM-00-C

Additional volatile organic compound(s) were detected. For quantitation and confirmation request analysis for CXVO.

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF78740

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U .S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Tuscola County Health Dept.
1309 Cleaver Rd
Caro, MI 48723
989 673-8114

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF78743

Official Laboratory Report

Report To: CARL J MILLER
287 E HURON AVE
VASSAR MI 48768

System Name/Owner:	CITY OF VASSAR	WSSN/Pool ID:	
Collection Address:	349 WEST ST,VASSAR	Source:	TYPE I
Collected By:	CARL J MILLER	Site Code:	TP011
Township/Well#/Section:	/7/	Collector:	Public Water Supply Operator
County:	Tuscola	Date Collected:	08/18/2015 08:53
Sample Point:	POE	Date Received:	08/19/2015 12:49
Water System:	Public System Well	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Chloride	291	08/19/2015	4		SM 4500-Cl E	7647-14-5
Cyanide-Available	Not Detected	08/20/2015	0.02	0.2	OIA-1677	57-12-5
Fluoride	1.0	08/19/2015	0.1	4.0	SM 4500 FC	16984-48-8
Hardness as CaCO3	240	08/19/2015	20		SM 2340 C	HARD-00-C
Iron (automated)	0.5	08/19/2015	0.1		SM 3500 FeB	7439-89-6
Nitrate as N	Not Detected	08/19/2015	0.4	10	10-107-04-2-B	14797-55-8
Nitrite as N	Not detected	08/19/2015	0.05	1	10-107-04-2-B	14797-65-0
Matrix spike recovery was below the acceptance criteria due to the presence of residual chlorine in the sample. This does not affect the validity of the sample result.						
Sodium (automated)	261	08/19/2015	5		SM 3500 NaB	7440-23-5
Sulfate	117	08/19/2015	10		SM 4500 SO4E	14808-79-8
Sulfate quality control results were outside allowed limits due to matrix interferences.						
Volatile Organic Compounds						
1,1 Dichloroethane	Not Detected	08/21/2015	0.0005		EPA 524.2	75-34-3
1,1 Dichloroethylene	Not Detected	08/21/2015	0.0005	0.007	EPA 524.2	75-35-4
1,1 Dichloropropene	Not Detected	08/21/2015	0.0005		EPA 524.2	563-58-6
1,1,1 Trichloroethane	Not Detected	08/21/2015	0.0005	0.2	EPA 524.2	71-55-6
1,1,1,2 Tetrachloroethane	Not Detected	08/21/2015	0.0005		EPA 524.2	630-20-6
1,1,2 Trichloroethane	Not Detected	08/21/2015	0.0005	0.005	EPA 524.2	79-00-5
1,1,2,2 Tetrachloroethane	Not Detected	08/21/2015	0.0005		EPA 524.2	79-34-5
1,2 Dichlorobenzene	Not Detected	08/21/2015	0.0005	0.6	EPA 524.2	95-50-1
1,2 Dichloroethane	Not Detected	08/21/2015	0.0005	0.005	EPA 524.2	107-06-2
1,2 Dichloropropane	Not Detected	08/21/2015	0.0005	0.005	EPA 524.2	78-87-5
1,2,3 Trichlorobenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	87-61-6
1,2,3 Trichloropropane	Not Detected	08/21/2015	0.0005		EPA 524.2	96-18-4

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF78743

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Volatile Organic Compounds						
1,2,4 Trichlorobenzene	Not Detected	08/21/2015	0.0005	0.07	EPA 524.2	120-82-1
1,2,4 Trimethylbenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	95-63-6
1,3 Dichlorobenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	541-73-1
1,3 Dichloropropane	Not Detected	08/21/2015	0.0005		EPA 524.2	142-28-9
1,3,5 Trimethylbenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	108-67-8
1,4 Dichlorobenzene	Not Detected	08/21/2015	0.0005	0.075	EPA 524.2	106-46-7
2,2 Dichloropropane	Not Detected	08/21/2015	0.0005		EPA 524.2	594-20-7
Benzene	Not Detected	08/21/2015	0.0005	0.005	EPA 524.2	71-43-2
Bromobenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	108-86-1
Bromochloromethane	Not Detected	08/21/2015	0.0005		EPA 524.2	74-97-5
Bromodichloromethane	Not Detected	08/21/2015	0.0005	0.080	EPA 524.2	75-27-4
Bromoform	Not Detected	08/21/2015	0.0005	0.080	EPA 524.2	75-25-2
Bromomethane	Not Detected	08/21/2015	0.001		EPA 524.2	74-83-9
Carbon tetrachloride	Not Detected	08/21/2015	0.0005	0.005	EPA 524.2	56-23-5
Chlorobenzene	Not Detected	08/21/2015	0.0005	0.1	EPA 524.2	108-90-7
Chlorodibromomethane	Not Detected	08/21/2015	0.0005	0.080	EPA 524.2	124-48-1
Chloroethane	Not Detected	08/21/2015	0.0005		EPA 524.2	75-00-3
Chloroform	Not Detected	08/21/2015	0.0005	0.080	EPA 524.2	67-66-3
Chloromethane	Not Detected	08/21/2015	0.0005		EPA 524.2	74-87-3
cis-1,2 Dichloroethylene	Not Detected	08/21/2015	0.0005	0.07	EPA 524.2	156-59-2
cis-1,3 Dichloropropene	Not Detected	08/21/2015	0.0005		EPA 524.2	10061-01-5
Dibromomethane	Not Detected	08/21/2015	0.0005		EPA 524.2	74-95-3
Dichlorodifluoromethane	Not Detected	08/21/2015	0.001		EPA 524.2	75-71-8
Dichloromethane	Not Detected	08/21/2015	0.0006	0.005	EPA 524.2	75-09-2
Ethylbenzene	Not Detected	08/21/2015	0.0005	0.7	EPA 524.2	100-41-4
Fluorotrichloromethane	Not Detected	08/21/2015	0.001		EPA 524.2	75-69-4
Hexachlorobutadiene	Not Detected	08/21/2015	0.0005		EPA 524.2	87-68-3
Isopropylbenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	98-82-8
m & p-Xylene	Not Detected	08/21/2015	0.0005	10	EPA 524.2	XYLMP-00-C
Methyl ethyl ketone	Not Detected	08/21/2015	0.005		EPA 524.2	78-93-3
Methyl isobutyl ketone	Not Detected	08/21/2015	0.005		EPA 524.2	108-10-1
Methyl-tert-butyl ether (MTBE)	Not Detected	08/21/2015	0.001		EPA 524.2	1634-04-4
Naphthalene	Not Detected	08/21/2015	0.0005		EPA 524.2	91-20-3
n-Butylbenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	104-51-8
n-Propylbenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	103-65-1
o-Chlorotoluene	Not Detected	08/21/2015	0.0005		EPA 524.2	95-49-8
o-Xylene	Not Detected	08/21/2015	0.0005	10	EPA 524.2	95-47-6
p-Chlorotoluene	Not Detected	08/21/2015	0.0005		EPA 524.2	106-43-4
p-Isopropyltoluene	Not Detected	08/21/2015	0.0005		EPA 524.2	99-87-6

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF78743

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Volatile Organic Compounds						
sec-Butylbenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	135-98-8
Styrene	Not Detected	08/21/2015	0.0005	0.1	EPA 524.2	100-42-5
tert-Butylbenzene	Not Detected	08/21/2015	0.0005		EPA 524.2	98-06-6
Tetrachloroethylene	Not Detected	08/21/2015	0.0005	0.005	EPA 524.2	127-18-4
Tetrahydrofuran	Not Detected	08/21/2015	0.005		EPA 524.2	109-99-9
Toluene	Not Detected	08/21/2015	0.0005	1	EPA 524.2	108-88-3
Total Trihalomethanes	Not Detected	08/21/2015	NA	0.080	EPA 524.2	TTHM-00-C
Total Xylenes	Not Detected	08/21/2015	NA	10	EPA 524.2	1330-20-7
trans-1,2 Dichloroethylene	Not Detected	08/21/2015	0.0005	0.1	EPA 524.2	156-60-5
trans-1,3 Dichloropropene	Not Detected	08/21/2015	0.0005		EPA 524.2	10061-02-6
Trichloroethylene	Not Detected	08/21/2015	0.0005	0.005	EPA 524.2	79-01-6
Vinyl chloride	Not Detected	08/21/2015	0.0005	0.002	EPA 524.2	75-01-4

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U .S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Tuscola County Health Dept.
1309 Cleaver Rd
Caro, MI 48723
989 673-8114

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY

USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF78742

Official Laboratory Report

Report To: CARL J MILLER
287 E HURON AVE
VASSAR MI 48768

System Name/Owner:	CITY OF VASSAR	WSSN/Pool ID:	
Collection Address:	301 GRANT ST,VASSAR	Source:	TYPE I
Collected By:	CARL J MILLER	Site Code:	TP009
Township/Well#/Section:	/5/	Collector:	Public Water Supply Operator
County:	Tuscola	Date Collected:	08/18/2015 08:15
Sample Point:	POE	Date Received:	08/19/2015 12:49
Water System:	Public System Well	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Chloride	55	08/19/2015	4		SM 4500-Cl E	7647-14-5
Cyanide-Available	Not Detected	08/20/2015	0.02	0.2	OIA-1677	57-12-5
Fluoride	0.85	08/19/2015	0.1	4.0	SM 4500 FC	16984-48-8
Hardness as CaCO3	237	08/19/2015	20		SM 2340 C	HARD-00-C
Iron (automated)	1.0	08/19/2015	0.1		SM 3500 FeB	7439-89-6
Nitrate as N	Not Detected	08/19/2015	0.4	10	10-107-04-2-B	14797-55-8
Nitrite as N	Not detected	08/19/2015	0.05	1	10-107-04-2-B	14797-65-0
Sodium (automated)	63	08/19/2015	5		SM 3500 NaB	7440-23-5
Sulfate	33	08/19/2015	10		SM 4500 SO4E	14808-79-8
Volatile Organic Compounds						
1,1 Dichloroethane	Not Detected	08/25/2015	0.0005		EPA 524.2	75-34-3
1,1 Dichloroethylene	Not Detected	08/25/2015	0.0005	0.007	EPA 524.2	75-35-4
1,1 Dichloropropene	Not Detected	08/25/2015	0.0005		EPA 524.2	563-58-6
1,1,1 Trichloroethane	Not Detected	08/25/2015	0.0005	0.2	EPA 524.2	71-55-6
1,1,1,2 Tetrachloroethane	Not Detected	08/25/2015	0.0005		EPA 524.2	630-20-6
1,1,2 Trichloroethane	Not Detected	08/25/2015	0.0005	0.005	EPA 524.2	79-00-5
1,1,2,2 Tetrachloroethane	Not Detected	08/25/2015	0.0005		EPA 524.2	79-34-5
1,2 Dichlorobenzene	Not Detected	08/25/2015	0.0005	0.6	EPA 524.2	95-50-1
1,2 Dichloroethane	Not Detected	08/25/2015	0.0005	0.005	EPA 524.2	107-06-2
1,2 Dichloropropane	Not Detected	08/25/2015	0.0005	0.005	EPA 524.2	78-87-5
1,2,3 Trichlorobenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	87-61-6
1,2,3 Trichloropropane	Not Detected	08/25/2015	0.0005		EPA 524.2	96-18-4
1,2,4 Trichlorobenzene	Not Detected	08/25/2015	0.0005	0.07	EPA 524.2	120-82-1
1,2,4 Trimethylbenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	95-63-6

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF78742

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Volatile Organic Compounds						
1,3 Dichlorobenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	541-73-1
1,3 Dichloropropane	Not Detected	08/25/2015	0.0005		EPA 524.2	142-28-9
1,3,5 Trimethylbenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	108-67-8
1,4 Dichlorobenzene	Not Detected	08/25/2015	0.0005	0.075	EPA 524.2	106-46-7
2,2 Dichloropropane	Not Detected	08/25/2015	0.0005		EPA 524.2	594-20-7
Benzene	Not Detected	08/25/2015	0.0005	0.005	EPA 524.2	71-43-2
Bromobenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	108-86-1
Bromochloromethane	Not Detected	08/25/2015	0.0005		EPA 524.2	74-97-5
Bromodichloromethane	0.0006	08/25/2015	0.0005	0.080	EPA 524.2	75-27-4
Bromoform	TRACE	08/25/2015	0.0005	0.080	EPA 524.2	75-25-2
Bromomethane	Not Detected	08/25/2015	0.001		EPA 524.2	74-83-9
Carbon tetrachloride	Not Detected	08/25/2015	0.0005	0.005	EPA 524.2	56-23-5
Chlorobenzene	Not Detected	08/25/2015	0.0005	0.1	EPA 524.2	108-90-7
Chlorodibromomethane	0.0008	08/25/2015	0.0005	0.080	EPA 524.2	124-48-1
Chloroethane	Not Detected	08/25/2015	0.0005		EPA 524.2	75-00-3
Chloroform	TRACE	08/25/2015	0.0005	0.080	EPA 524.2	67-66-3
Chloromethane	Not Detected	08/25/2015	0.0005		EPA 524.2	74-87-3
cis-1,2 Dichloroethylene	Not Detected	08/25/2015	0.0005	0.07	EPA 524.2	156-59-2
cis-1,3 Dichloropropene	Not Detected	08/25/2015	0.0005		EPA 524.2	10061-01-5
Dibromomethane	Not Detected	08/25/2015	0.0005		EPA 524.2	74-95-3
Dichlorodifluoromethane	Not Detected	08/25/2015	0.001		EPA 524.2	75-71-8
Dichloromethane	Not Detected	08/25/2015	0.0006	0.005	EPA 524.2	75-09-2
Ethylbenzene	Not Detected	08/25/2015	0.0005	0.7	EPA 524.2	100-41-4
Fluorotrichloromethane	Not Detected	08/25/2015	0.001		EPA 524.2	75-69-4
Hexachlorobutadiene	Not Detected	08/25/2015	0.0005		EPA 524.2	87-68-3
Isopropylbenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	98-82-8
m & p-Xylene	Not Detected	08/25/2015	0.0005	10	EPA 524.2	XYLMP-00-C
Methyl ethyl ketone	Not Detected	08/25/2015	0.005		EPA 524.2	78-93-3
Methyl isobutyl ketone	Not Detected	08/25/2015	0.005		EPA 524.2	108-10-1
Methyl-tert-butyl ether (MTBE)	Not Detected	08/25/2015	0.001		EPA 524.2	1634-04-4
Naphthalene	Not Detected	08/25/2015	0.0005		EPA 524.2	91-20-3
n-Butylbenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	104-51-8
n-Propylbenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	103-65-1
o-Chlorotoluene	Not Detected	08/25/2015	0.0005		EPA 524.2	95-49-8
o-Xylene	Not Detected	08/25/2015	0.0005	10	EPA 524.2	95-47-6
p-Chlorotoluene	Not Detected	08/25/2015	0.0005		EPA 524.2	106-43-4
p-Isopropyltoluene	Not Detected	08/25/2015	0.0005		EPA 524.2	99-87-6
sec-Butylbenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	135-98-8
Styrene	Not Detected	08/25/2015	0.0005	0.1	EPA 524.2	100-42-5

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF78742

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Volatile Organic Compounds						
tert-Butylbenzene	Not Detected	08/25/2015	0.0005		EPA 524.2	98-06-6
Tetrachloroethylene	Not Detected	08/25/2015	0.0005	0.005	EPA 524.2	127-18-4
Tetrahydrofuran	Not Detected	08/25/2015	0.005		EPA 524.2	109-99-9
Toluene	Not Detected	08/25/2015	0.0005	1	EPA 524.2	108-88-3
Total Trihalomethanes	0.0014	08/25/2015	NA	0.080	EPA 524.2	TTHM-00-C
Total Xylenes	Not Detected	08/25/2015	NA	10	EPA 524.2	1330-20-7
trans-1,2 Dichloroethylene	Not Detected	08/25/2015	0.0005	0.1	EPA 524.2	156-60-5
trans-1,3 Dichloropropene	Not Detected	08/25/2015	0.0005		EPA 524.2	10061-02-6
Trichloroethylene	Not Detected	08/25/2015	0.0005	0.005	EPA 524.2	79-01-6
Vinyl chloride	Not Detected	08/25/2015	0.0005	0.002	EPA 524.2	75-01-4

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U .S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Tuscola County Health Dept.
1309 Cleaver Rd
Caro, MI 48723
989 673-8114

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

Centers for Disease Control and Prevention Oral Health Attachment 2
CDC 24/7: Saving Lives, Protecting People.™

My Water's Fluoride

Water with fluoride protects teeth from tooth decay. It is important to know the level of fluoride in your drinking water.

Michigan - Public Water System Details

Water System Name: VASSAR **Water System ID:** MI-0006780

Is this Water System Fluoridated?

Fluoride Concentration: 1.30 mg/L

What does this mean?

Yes This water system has more natural fluoride than is necessary to prevent cavities (tooth decay). For infants and children up through 8 years, there also may be an increased chance for Dental Fluorosis, a change in the appearance of the teeth. Consider using other sources of drinking water, such as bottled water, for these young children and check with your dentist or pediatrician for more information about dental fluorosis.

Water System Details

Water System Type: Community

Water Source: Ground

County	Population Served
Tuscola (Primary)	2,823

Contact Information

Michigan Dept of Health and Human Services
Oral Health Program
Sandy Sutton
109 W. Michigan Ave.
PO Box 30195
Lansing, MI 48909
(517) 373-0238
suttons2@michigan.gov
Visit State Web Site
Send Comments to the State

See Also for Michigan:

- View All Counties
- View All Public Water Systems
- View State Fluoridation Reports

The U.S. Department of Health and Human Services recommends a level of 0.7 milligrams per Liter (mg/L) of fluoride in your drinking water. This is the level that prevents tooth decay and promotes good oral health. For additional information on fluoride in drinking water please visit the CDC Water Fluoridation Page.

Note: Information on this page has been provided by the State. Verify this information with your local water utility, or with your local or state health department.

Centers for Disease Control and Prevention 1600 Clifton Rd. Atlanta, GA 30333, USA
800-CDC-INFO (800-232-4636) TTY: (888) 232-6348, 24 Hours/Every Day - Contact CDC-INFO

USA.gov Government Made Easy

Brian Chapman

Attachment 3

From: Sutton, Sandra (DHHS) <SuttonS2@michigan.gov>
Sent: Tuesday, April 05, 2016 4:20 PM
To: citymanager@cityofvassar.org
Subject: Fluoridation information
Attachments: 2015 Surgeon General position statement.pdf; 2016 MDHHS CWF Fact Sheet.doc

Hi Brian,

Thank you for your call! I was able to get ahold of the chief fluoridation engineer at the CDC and forward your questions. It is possible that the natural levels have not been updated recently in the WFRS tracking system since its main function is to track systems that add fluoride. Those totals are updated frequently.

He asked me to contact the Drinking Water Administrator through DEQ to provide a data dump from SDWIS-State on natural levels and they would be able to update it from there. They will need to provide the reported fluoride levels for the past 10 years. This would represent typically 3 data points for the majority of water systems are groundwater and they only have to report fluoride once every 3 years. Surface water is annually. With that information over a period of time, we can evaluate if the water system is correctly characterized.

The Association of State and Territorial Dental Directors (ASTDD) is completing a National Fact Sheet on Natural Fluoridation Systems for public education. As soon as that is released, I will make sure that you get a copy sent out! In the meantime, I am attaching some general fluoride information.

The bottom line for fluoride is when it's in optimal level range, .7 ppm, this naturally occurring mineral is beneficial to overall health, up to 2.0 ppm. In amounts from 2.0-4.0 it can cause white spotting or pitting on teeth surface-ONLY when teeth are forming- basically, ages 0-8. The white spotting is actually even more decay resistant. Think of it like anything else that is positive in certain amounts; A cool breeze, good. A gale force wind, not so good. Anything in extreme excess can have issues.

If you have any other questions, please feel free to reach out- call or email-

Sandy

S K Sutton
Sandy Sutton, RDH, BS
Community Water Fluoridation Coordinator
Michigan Dept of Health and Human Services
Oral Health Unit
SuttonS2@michigan.gov
517-373-0238
Cell 248-561-9889