

Clean Water Ambassador Meeting

June 30, 2022

How to ask a question



Type your question into the chat.

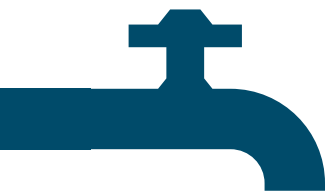


Click the “hand” icon at the top of your screen.



Type #2 to raise your hand.





Agenda



Welcome and Review of Agenda

Anita Singh, EGLE



EGLE Updates

Emily Posthumus, EGLE



Consumer Confidence Reports

Kristofer Dorcy, EGLE



Ambassador Updates & Discussion



Wrap up & Reminders

Emily Posthumus, EGLE

Updates from EGLE

Emily Posthumus, EGLE



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

Office of the Clean
Water Public Advocate

Upcoming Events

- Opportunities for feedback on:
 - SDWA
 - Lead education materials (SDWAC)
- Upcoming CWA Meetings:
 - August 25 – Environmental Education
 - October 27 – Source Water Protection



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

Consumer Confidence Report Rule

Kristofer Dorcy

Drinking Water and Environmental Health

Consumer Confidence Report (CCR) Rule

- Annual water quality report required by all community water systems.
 - Goal of the CCR is to:
 - Provide transparency and increase public confidence
 - Increase public's understanding of drinking water processes and water quality
 - Increase public awareness of the need to protect drinking water sources
 - Keep water agencies accountable
 - Delivery required annually by July 1st



CCR =

| Nutrition Facts | |
|---|----------------------|
| Serving Size 4 Cookies (32g) | |
| Servings Per Container about 7 | |
| Amount Per Serving | |
| Calories 160 | Calories from Fat 70 |
| % Daily Value* | |
| Total Fat 8g | 12% |
| Saturated Fat 5g | 25% |
| Trans Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 120mg | 5% |
| Total Carbohydrate 22g | 7% |
| Dietary Fiber less than 1g | 3% |
| Sugars 10g | |
| Protein 1g | |
| Vitamin A 0% | Vitamin C 0% |
| Calcium 0% | Iron 4% |
| INGREDIENTS: Enriched flour (wheat flour, niacin, reduced iron, thiamin mononitrate [vitamin B1], riboflavin [vitamin B2], folic acid), sugar, vegetable oil (partially hydrogenated palm kernel and/or cottonseed oil, soybean and palm oil), cocoa, caramel color, contains two percent or less of cocoa processed with alkali, invert sugar, whey, leavening (baking soda, monocalcium phosphate), cornstarch, salt, soy lecithin, natural and artificial flavor, oil of peppermint. | |
| CONTAINS WHEAT, MILK AND SOY INGREDIENTS. | |
| Diet Exchange: 1 ½ Carbohydrates, 1 ½ Fats | |


Fast Facts about the CCR

- Applies to all community water systems (1379)
- It lists the most recent sample data going back 5 years
- There is no set template
- The report is published once a year
- Eight required elements

What is included in the report?

- Water system contact information
- Source(s) of water
- Definitions of terms used, e.g., parts per million (ppb), maximum contaminant level (MCL), etc.
- Reported levels of detected contaminants (in table format)
- Compliance with State and Federal Drinking Water Regulations (explanation of violations, potential health effects, and special notices)
- If applicable, information on other monitoring for Cryptosporidium, Radon, and Other Contaminants
- Required educational information, e.g., statement on lead, arsenic, nitrate, vulnerable population, etc.
- If applicable, variances and exemptions

Regulated Contaminant Table



| Regulated Contaminant | MCL, TT, or MRDL | MCLG or MRDLG | Level Detected | Range | Year Sampled | Violation Yes/No | Typical Source of Contaminant |
|----------------------------------|------------------|---------------|----------------|-------|--------------|------------------|---|
| Arsenic (ppb) | 10 | 0 | 1 | 0 - 1 | 2021 | No | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Barium (ppm) | 2 | 2 | .1 | | 2021 | No | Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits |
| Nitrate (ppm) | 10 | 10 | 1.0 | | 2021 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Fluoride (ppm) | 4 | 4 | .5 | | 2021 | No | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Sodium ¹ (ppm) | N/A | N/A | 31 | | 2021 | No | Erosion of natural deposits |
| TTHM Total Trihalomethanes (ppb) | 80 | N/A | 35 | 20-40 | 2021 | No | Byproduct of drinking water disinfection |
| HAA5 Haloacetic Acids (ppb) | 60 | N/A | 22 | 10-30 | 2021 | No | Byproduct of drinking water disinfection |

EGLE Tools and Resources



Michigan.gov

Department of Environment, Great Lakes, and Energy

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Consumer Confidence Report Rule



EGLE

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[illegible]

| Regulated Contaminant | MCL, T1, or MMDL | MCLs or MMDLs | Level Detected | Range ¹ | Year Sampled | Violation Yes/No | Typical Source of Contaminant |
|--|-------------------------------|---------------|----------------|--------------------|--------------|------------------|---|
| Arsenic (ppb) | 10 | 0 | | | | | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Barium (ppm) | 2 | 2 | | | | | Discharge of mining wastes; Discharge of metal refineries; Erosion of natural deposits |
| Nitrate (ppm) | 10 | 10 | | | | | Runoff from fertilizer use; Leaching from septic tanks; Sewage; Erosion of natural deposits |
| Fluoride (ppm) | 4 | 4 | | | | | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Sodium (ppm) | N/A | N/A | | | | | Erosion of natural deposits |
| THM8 Total Trihalomethanes (ppm) | 80 | N/A | | | | | Byproduct of drinking water disinfection |
| THM5 Halomethane Acids (ppb) | 60 | N/A | | | | | Byproduct of drinking water disinfection |
| Chlorine (ppm) | 4 | 4 | | | | | Water additive used to control microbes |
| Alpha enterics (qPCR) | 15 | 0 | | | | | Erosion of natural deposits |
| Combined indicator ² E. coli | 0 | 0 | | | | | Erosion of natural deposits |
| Total Coliform (total number of % of positive samples/month) | 0 | N/A | N/A | N/A | N/A | | Naturally present in the environment |
| E. coli in the distribution system (positive samples) | See E. coli note ³ | 0 | N/A | | | | Human and animal fecal waste |
| Fecal indicator – E. coli at the source (positive samples) | TT | N/A | N/A | | | | Human and animal fecal waste |

¹ Sodium is not a regulated contaminant.

² The chlorine "Level Detected" was calculated using a running annual average.

³ E. coli NCL1 violation occurs if (1) routine and repeat samples are total coliform-positive and either is E. coli-positive, or (2) the supply fails to take all required repeat samples following E. coli-positive routine sample, or (3) the supply fails to analyze total coliform-positive repeat sample for E. coli.

² The chlorine "Level Detected" was calculated using a running annual average.

³ *E. coli* MCL violation occurs if: (1) routine and repeat samples are total coliform-positive and either is *E. coli*-positive, or (2) the supply fails to take all required repeat samples following *E. coli*-positive routine sample, or (3) the supply fails to analyze total coliform-positive repeat sample for *E. coli*.

3

Delivery Requirements

- Mail or directly deliver a copy by **July 1**
- Includes making a good faith effort to deliver to non bill paying customers
- Needs translations if a community has a population of >10% non-English speaking residents
- Must be made available upon request
- 2 waivers for small systems (<10,000) and (<500)




Delivery Requirements Cont.

- Supplies have options when it comes to delivering CCRs.
 - For larger supplies they must mail, hand deliver or notify the availability of the CCR online. (this notification might appear on a bill) This is also an option for other supplies.
- Smaller supplies that server less than 10,000 have the option to post the whole report in a newspaper.
- Supplies that serve 500 persons or less can post their CCR to public places.

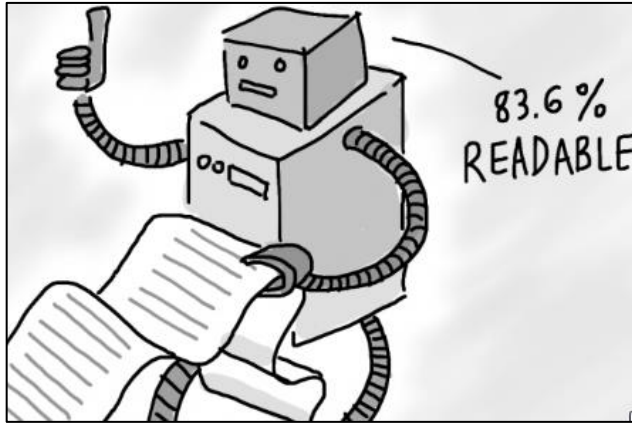
Certificate of Distribution

Due by **October 1**

|  MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE CONSUMER CONFIDENCE REPORT FOR COMMUNITY WATER SUPPLY CERTIFICATE OF DISTRIBUTION | | |
|---|---------------|-------------|
| <small>Issued under authority of 1976 PA 399 and Administrative Rules, as amended. Failure to submit certification is a violation of the Act and may subject the water supply to enforcement penalties.</small> | | |
| Supply Name: _____ | County: _____ | WSSN: _____ |
| Population: <input type="checkbox"/> 500 or fewer people <input type="checkbox"/> 501 – 9,999 people <input type="checkbox"/> 10,000 or more people | | |
| <small>Community water supplies must confirm that the Consumer Confidence Report (CCR) and any enclosed Public Notices (PN) or notice of CCR availability, have been distributed to customers by July 1 as required under administrative rules R 325.10415 and R 325.10404(4)(c). Supplies must also certify that the information contained in the CCR is correct and consistent with the compliance monitoring data previously submitted to the Michigan Department of Environmental Quality (DEQ). Return the certification to the appropriate DEQ district office by October 1. For addresses, visit www.michigan.gov/deq, click on Locations.</small> | | |
| Method of delivery to DEQ <input type="checkbox"/> Mail <input type="checkbox"/> Email <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Other _____ Date delivered: _____ | | |
| Method of delivery to Local Health Department <input type="checkbox"/> Mail <input type="checkbox"/> Email <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Other _____ Date delivered: _____ | | |
| Method or combination of methods to directly deliver CCR to each bill paying customer. Check all that apply. <input type="checkbox"/> Mail or hand deliver a paper copy of CCR. Date(s) mailed or hand delivered: _____ <input type="checkbox"/> Mail or hand deliver notification that the CCR is available at a direct URL. Date(s) delivered to customers: _____ <input type="checkbox"/> Email notification that CCR is available at direct URL. Date(s) emailed: _____ <input type="checkbox"/> Email notification that CCR is attached to the email. Date(s) emailed: _____ <input type="checkbox"/> Email notification that CCR is embedded in the email. Date(s) emailed: _____ <small>If using notification of CCR availability:</small> 1. Mail a paper CCR to customers who request it and to customers known to be incapable of receiving electronically. 2. Include a copy of the notification to the DEQ district office with this certification form. 3. Explain the nature of the notification, prominently display the direct URL, include statement how to request a paper copy. <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <small>Example of Notification of CCR Availability Subject Line: 2012 Drinking Water Quality Report Available. Message: Your annual report on the source and quality of your drinking water is available on the Web at www.anytown.gov/waterqualityreport. To have a copy mailed to you, contact Anytown at 555-111-1111 or water@anytown.gov.</small> </div> <input type="checkbox"/> Option for supplies serving fewer than 10,000 persons: Publish entire report in newspaper, and notify customers via newspaper(s) in which CCR published, mail, email or hand delivery that individual copies will not be mailed, and include statement how to request a paper copy. Date(s) of publication: _____ <input type="checkbox"/> Option for supplies serving 500 or fewer persons: Notify customers via mail, email, hand delivery or, with DEQ approval, posting in public places, that a copy of the report is available from the water supply on request. Date(s) of notification: _____ | | |
| Post on Internet (required for supplies serving ≥100,000, optional for others) <input type="checkbox"/> Internet address: _____ Date accessible: _____ | | |
| "Good Faith" efforts to reach non-bill-paying consumers (in addition to the method(s) above). Check all that apply. <input type="checkbox"/> Mail the report to all postal patrons. Zip codes and dates mailed: _____ <input type="checkbox"/> Mail to each service connection physical address. Date(s) mailed: _____ <input type="checkbox"/> Advertise the availability of the report in the newspapers, on TV, and on the radio. <input type="checkbox"/> Publish the report in a local newspaper. <input type="checkbox"/> Post the report in public places such as cafeterias in public buildings, libraries, churches, and schools. <input type="checkbox"/> Deliver multiple copies for distribution by single-bill customers, e.g., apartments or private employers. <input type="checkbox"/> Deliver the report to community organizations. <input type="checkbox"/> Other: _____ <small>Send to the DEQ a copy of the news articles, a list of channels broadcast and dates, and a list of locations/organizations reports delivered to and dates.</small> | | |
| A Tier 3 Public Notice is Distributed with this CCR <input type="checkbox"/> This CCR is being used to deliver a Tier 3 Public Notice for one or more violations. To use this Tier 3 delivery option, the CCR must be directly delivered to each bill paying customer or, with DEQ approval, continuously posted, and must be issued within 12 months of learning of the violation. A copy of this form must be delivered to the DEQ within 10 days of delivering the CCR to customers to meet the public notification requirements. | | |
| Name/Title: _____ | | |
| Signature: _____ | | Date: _____ |

The Challenge of Readability

- Required language is not very “readable”
- Audience is very broad
- We want all people to have access to their report and UNDERSTAND IT!

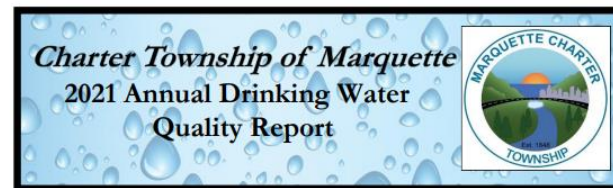


Great Michigan Example!

Eye-catching
title

Important info
right up front

Good use of
headers to
break up
paragraphs



Color added
with township
seal

Marquette Township is pleased to present this 2021 annual Water Quality Report summarizing the quality of the drinking water provided to you during the past year. This Consumer Confidence Report (CCR), required by the Safe Drinking Water Act (SDWA), tells you where your tap water comes from, what our tests show about it, and other things you may wish to know about drinking water.

We encourage public interest and participation in our community's decisions affecting drinking water. If you have any questions about this report or your water utility, please contact Leonard Bodenus, Superintendent of Public Works, at 906-228-6220 ext. 106 or lbodenus@marquettetownship.org. If you want to learn more about the water utility, you may attend any of our regularly scheduled Marquette Township Board meetings. They are held on the first and third Tuesday of each month at 7:00 p.m. at the Marquette Township Center, located at 1000 Commerce Drive and are open to the public.

The Bottom Line

During 2021 your drinking water from Marquette Township met or exceeded all quality standards issued by the U.S. Environmental Protection Agency (EPA) and the Michigan Department of Environment, Great Lakes and Energy (EGLE).

Water Sources

The Marquette Township water supply currently receives water from two sources. The source of our surface water supply is Lake Superior, which has provided Marquette area residents with excellent drinking water for over 140 years. This water is treated using a state-of-the-art microfiltration membrane system at the Marquette Water Filtration Plant located on Lakeshore Boulevard at Ridge Street. Treated water is purchased by Marquette Township. The source of our groundwater supply is an aquifer in the Western Creek watershed, south of Grove Street. The wells were developed to more efficiently serve our expanding service area and to provide increased reliability with multiple water sources. Marquette Township owns the property surrounding the wells and has an on-going wellhead protection program. The wells have been in operation for 16 years and they provide Marquette Township residents with excellent drinking water. The water requires no treatment except chlorination and fluoridation. The water from both surface and groundwater sources is delivered to your home or business through a system of pipes, pumps and water reservoirs.

"Bottom Line"
Summary

WATER TREATMENT PLANT



10 FULL TIME EMPLOYEES



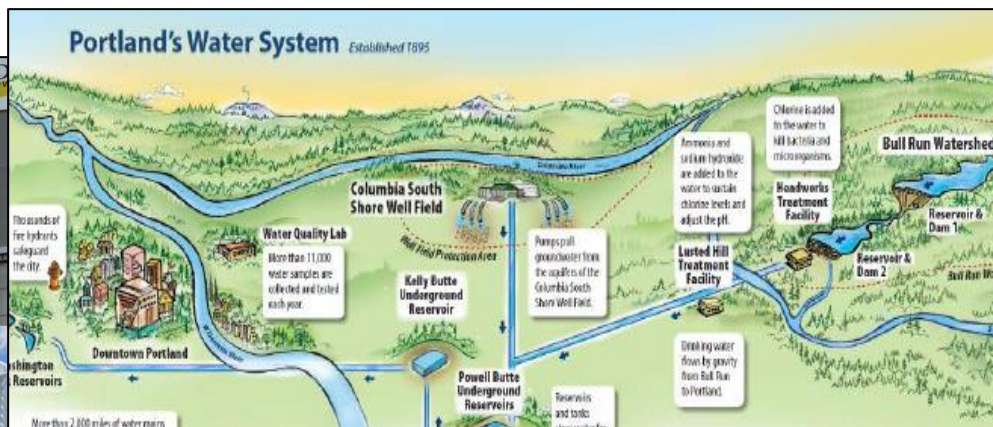
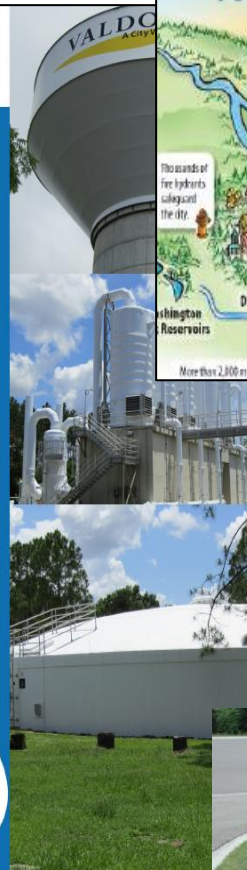
9 WELL FIELDS A FEW MILES
NORTHEAST OF THE CITY



300 MILES OF MAINS,
WITH PIPE SIZES UP TO
30 INCHES IN
DIAMETER



1 MILLION GALLONS PER DAY



Using graphics to explain the water system



Explaining source water protection

WHERE DOES THE WATER GO?

WATER IS USED TO FLUSH TOILETS, BATHE AND TO WASH DISHES, CLOTHES AND CARS.

THE AVERAGE AMERICAN USES ABOUT 90 GALLONS OF WATER EACH DAY IN THE HOME

50-70 PERCENT OF THAT WATER IS BEING USED TO WATER LAWNS AND GARDENS.

BY USING WATER WISELY, CITIZENS CAN SAVE MONEY & ENSURE SUSTAINABLE WATER SUPPLIES FOR FUTURE GENERATIONS.

SAFEGUARDING OUR SOURCES OF SUPPLY

Protecting surface water, ground water and Tampa Bay from contamination protects your drinking water, the environment, and saves money and energy. The cleaner the source water, the less treatment that's required — which means less energy and fewer chemicals are needed to clean the water. You can help prevent pollution by following a few simple steps:

PUT TRASH IN THE PROPER PLACE
Whether it's the trash can or recycle bin, put trash where it belongs. Plastic does not decompose and can harm many animals and fish as well as pollute the water.

USE FLORIDA-FRIENDLY FERTILIZER
Use slow-release fertilizer in the garden and on the lawn with only 1/4 inch of water. Watch the weather and never fertilize before rain. Rain washes fertilizer into the environment. When possible, use Florida-friendly plants — they use minimal water and fertilizer.

NEVER DUMP INTO STORM DRAINS
In many municipalities, it is illegal to dump chemicals, oil, sewage and yard waste into the stormwater system. If you see someone polluting, report the incident to your local city or county government.

PICK UP AFTER YOUR PET
Pet waste contains harmful bacteria that make people sick and cause harmful algae blooms.

USE AN ASHTRAY
Discarded cigarette butts are carried by rainwater to the nearest storm drain, drainage ditch, pond, lake or bay. Cigarettes are not biodegradable — they are pollution.

Your efforts, combined with local and state ordinances and Best Management Practices, we can all promote a healthy watershed today and **PROTECT OUR DRINKING WATER SOURCES FOR FUTURE GENERATIONS.**

DOs & DON'Ts of Water Conservation

BATHROOM

- ✓ Do take shorter showers and fill the tub halfway.
- ✗ Don't run water while washing your hands & brushing your teeth.

KITCHEN & LAUNDRY

- ✓ Do run the dishwasher & washing machine only when full.
- ✗ Don't let the water run while washing dishes. Kitchen faucets use 2 to 3 gallons a minute. Filling a basin only takes 10 gallons to wash and rinse.

EVERYWHERE

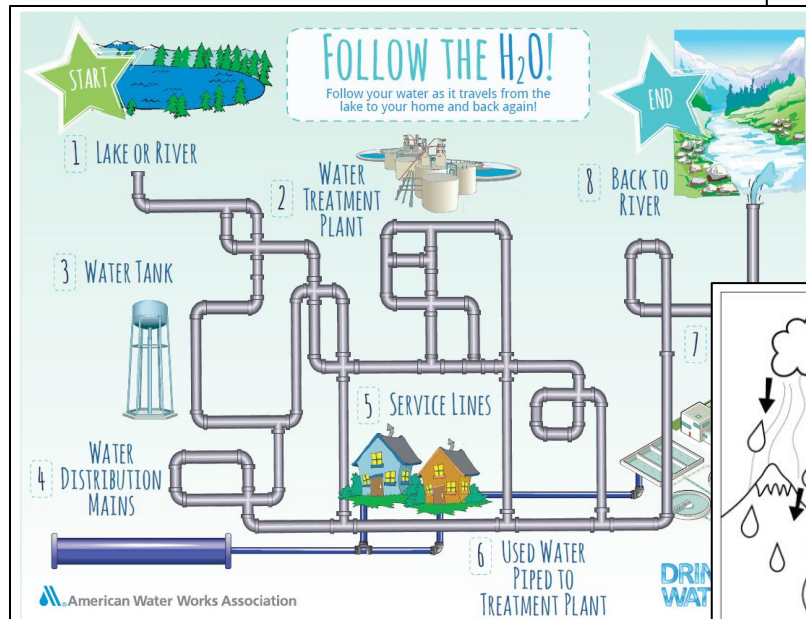
- ✓ Do install water-saving fixtures.
- ✗ Don't ignore water leaks. Turn taps off tightly.

OUTDOORS

- ✓ Do use a self-closing nozzle on your hose.
- ✗ Don't open fire hydrants.

Engaging the youngest customers

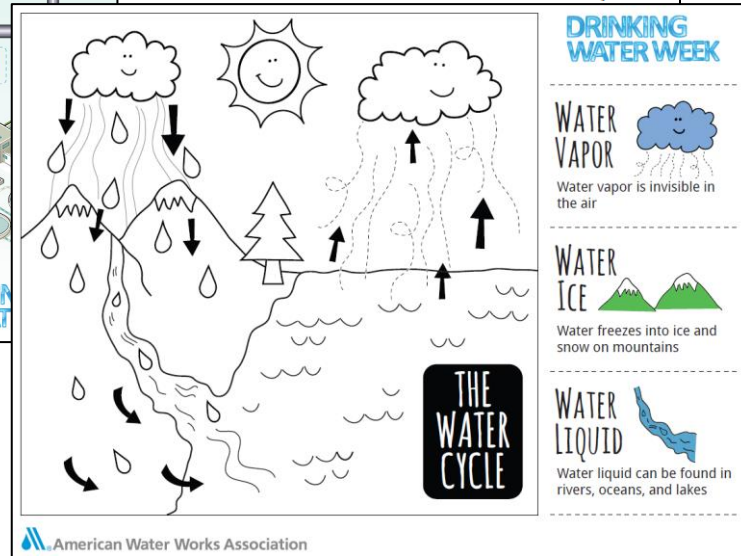
Events and Activities



H₂O WORD SEARCH

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T | U | P | N | O | L | L | A | G | E | N | K | R | H | F |
| P | N | B | B | M | V | D | G | B | W | N | S | N | A | H |
| S | I | E | Y | R | T | S | I | M | E | H | C | U | I | W |
| W | K | P | M | A | E | W | M | Q | T | H | C | U | A | S |
| T | R | G | E | T | K | X | I | M | U | E | H | T | S | N |
| E | I | W | E | S | A | J | R | I | T | A | E | W | F | O |
| S | V | L | N | U | V | E | H | L | R | R | L | L | T | R |
| T | E | L | E | A | T | C | R | N | Q | O | G | I | K | U |
| I | R | E | S | I | E | M | F | T | M | O | N | K | T | H |
| N | R | W | L | T | U | L | E | M | I | L | I | F | M | Y |

CALCIUM
CHEMISTRY
CLEAN
DRINKING
FAUCET
FILTER
GALLON
HURON
LIME
LITER
MONITOR
OZONE
PIPES
QUALITY



A great way to celebrate successes!



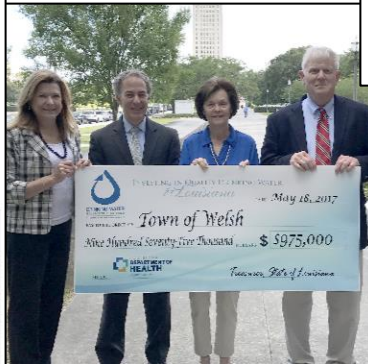
Town Proud Of Its Best Tasting Water

BY KEN CONNERS · MAY 20, 2019 · NO COMMENTS
LOCAL ·

Deems Blanton got back home after attending the North Carolina Rural Water Association Water Taste Test competition in Greensboro last week. During the water tasting contest, Mount Olive was rated as having the best tasting water in the state.



Pictured with Blanton is Jeremy King from the Mount Olive Water Department. Every day they run several tests on the water quality at the plant to ensure citizens and businesses are getting the very best drinking water in North Carolina.



Where can I get a copy of my report?



- Contact your water supplier
- Check your community's website
- Reach out to EGLE DWEH District Staff

Michigan Department of
Environment, Great Lakes, and Energy

Follow us at: Michigan.gov/EGLEConnect



Randi Henderson

Drinking Water and Environmental Health

517-899-4974 | HendersonR7@Michigan.gov



Open Discussion & Updates from Ambassadors



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

Office of the Clean
Water Public Advocate



Thank you, Ambassadors!



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