



April 10, 2019

Council Meeting of April 16, 2019

Subject: Grant Application Authorization

Drinking Water Contaminant Remediation

The Honorable Mayor
and
Members of the City Council

Ladies and Gentlemen:

The City has been providing assistance to the County of Muskegon relative to the investigation of ground water well contamination from PFAS near the airport. The County's testing of area drinking water wells, as required by the Michigan Department of Environmental Quality (MDEQ), has identified six homes exceeding the contaminant threshold level. The MDEQ is requiring the County to provide a permanent abatement of the potential health risk from these six wells.

The MDEQ provides a grant program to address drinking water contaminant remediation. The grant conditions require the water supplier to be the grant applicant. Council is requested to consider authorizing the submittal of a grant application on behalf of the County. If a grant is awarded, the County will administer the grant and pay all related costs including any required local match to the grant.

Adoption of the attached resolution will authorize the City Administrator to sign and submit the grant application and for the Mayor to sign the grant agreement.

Respectfully submitted,

Mark C. Meyers
City Administrator

GAB/sr
Attachments

Administration/City Clerk (231) 798-4391	Assessing Division (231) 799-6806	Building Division (231) 799-6801	Finance/Treasurer (231) 799-6805	Fire Prevention (231) 799-6809	Fire Department (231) 798-2255
Parks/Recreation (231) 799-6802	Planning/Zoning (231) 799-6800	Police Department (231) 733-2691	Public Works (231) 799-6803	Streets Division (231) 798-2156	Water/Sewer (231) 799-6804

RESOLUTION

NOW, THEREFORE, BE IT RESOLVED that the City Administrator is authorized to sign and submit a grant application for Drinking Water Contaminant Remediation with the Michigan Department of Environmental Quality on behalf of the County of Muskegon to permanently abate the potential health risk of six drinking water wells near the County airport and for the Mayor to sign the grant agreement.

At a regular meeting of the City Council of the City of Norton Shores, held at the Norton Shores Branch Library, 705 Seminole Road, on the 16th day of April, 2019, the foregoing resolution was moved for adoption by Council Member. The motion was supported by Council Member.

Ayes:

Nays:

Resolution declared adopted/denied.

Shelly Stibitz, City Clerk



April 17, 2019

Michigan Department of Environmental Quality
Administration Division
Attention: Kelley Green
525 West Allegan Street
P.O. Box 30473
Lansing, Michigan 48909-7973

RE: Drinking Water Contaminant Remediation Grant

Dear Ms. Green,

This letter is to apply for a grant under Public Act 618 of 2018 to fund water infrastructure to connect residential homes with per- and poly-fluoroalkyl substances (PFAS) in drinking water wells to the City of Norton Shores' public water system.

Project Overview

This project will connect six residential homes with drinking water wells with PFAS levels exceeding the current regulatory limit of 70 parts per trillion (ppt) combined for PFOS & PFOA to the municipal water distribution system. The proposed new users of the municipal water system are private residents that each has a residential well with regulatory exceedances for PFAS. The homes to be connected are in the vicinity of the Muskegon County Airport. The Federal Aviation Administration required the Airport to use firefighting foam that later was found to have contained PFAS.

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In cooperation with the Michigan Department of Environmental Quality (MDEQ), the County of Muskegon is testing drinking water wells in the vicinity of the Airport. The MDEQ initially identified an area to sample (Study Area) which resulted in sampling 23 homes in areas where PFAS containing foam may have been used. The original and expanded Study Area has expanded three times pursuant to requests from the MDEQ. As of April 4, 2019, 114 homes have been sampled and results received for all of them. Of the 114 drinking water wells sample results in the Study Area, six have exceedances of combined PFOS & PFOA above the regulatory limit of 70 ppt. These six homes are indicated by red dots on the attached site map (Attachment "A").

Project Purpose

To permanently abate the potential threat to public health related to PFAS in drinking water wells, the City of Norton Shores is applying for this grant to connect the six homes with combined PFOS & PFOA exceedances to the municipal water system. The proposed project will:

1. Pay the water system connection charge costs ("Connection Charge"),
2. Connect a service line to the existing water main and extend the service line to the property line ("Tap Fee"),
3. Install a water line from the property line to the home ("Water Service"),
4. Connect water service line to the existing plumbing system in the home ("Internal Plumbing"),
5. Abandon the existing drinking water wells ("Well Abandon"), and
6. Engineering, Legal, Administration, and Project Management.

Capacity of the Public Water System

The current maximum day demand of the public water system is 9.15 million gallons per day (mgd) with the projected 2036 maximum daily demand of 10.2 mgd. The firm capacity of the system is 15 mgd. The six additional residential connections are projected to increase demand by 0.0013 mgd. Firm pumping, distribution, and storage capacity is adequate.¹

Project Cost

The cost of this proposed project is \$115,310. However, \$30,111 consists of ineligible expenses with the eligible costs of \$85,199 outlined below:

#	#	Street	Connection Charge	Tap Fee	Water Service line	Internal Plumbing	Well Abandon	Total
1	4629	Martin	\$0	\$1,585	\$4,100	\$860	\$750	\$7,295
2	138	W. Byron	\$9,745 ²	\$1,585	\$4,100	\$860	\$750	\$7,295
3	474	Wendover	\$0	\$1,585	\$4,100	\$860	\$750	\$7,295
4	456	Wendover	\$0	\$1,585	\$4,100	\$860	\$750	\$7,295
5	178	W. Byron	\$20,366 ³	\$1,585	\$4,100	\$860	\$750	\$7,295
6	555	Porter	\$0	\$1,585	\$5,250	\$860	\$750	\$8,445
Sub								\$44,920
Contingencies								\$9,417
Subtotal								\$54,337
Eng/Legal/Admin								\$30,862
Total								\$85,199

¹ Prien & Newhof. (2016). Water system reliability evaluation.

² Ineligible cost not included in the total

³ Ineligible cost not included in the total

The cost for the connection charge and tap fee are fixed based on construction costs. The water tap from main to the property line will be performed by the City of Norton Shores Water Department. The water service, internal plumbing, and well abandonment will be competitively bid. Plans, specifications, bidding services, inspection, legal, project oversight, and grant administration will be performed by the County of Muskegon's Public Works Department.

Since Muskegon County is the owner of the Airport the County will cover the matching requirements and ineligible costs. Due to its financial position, the County is requesting the 20% required match be waived based on affordability criteria established by the Water Asset Management Council. Muskegon County submitted the Munipay Data Request Form to the Environmental Protection Agency which is also attached hereto in support of its request (Attachment "B").

Time Frame

Due to the potential impact to public health, the County has already begun the process in anticipation of grant award. Currently, the six homes with exceedances are receiving bottled water and point of use filters certified to remove PFOS & PFOA.

Other Impacts

Muskegon County continues to sample drinking water wells in the original and expanded Study Area as requested by the MDEQ. Muskegon County hired a consultant on March 21, 2019 to perform hydrogeological services at and around the original and expanded Study Area. Muskegon County will proceed with a

hydrogeological study to more precisely determine the fate and transport of the PFAS compounds and develop a response plan. The estimated cost of this initial study is \$1.2 million. The cost for additional hydrogeological study cannot be estimated until the scope is identified. Muskegon County will be working with your office to identify sources of funding for the initial study.

The original and expanded Study Area identified by MDEQ has 140 residential drinking water wells. This project proposes to connect the six homes with regulatory exceedances to the municipal water system. Should new regulatory limits on PFAS be implemented by an agency with authority that would require these 140 homes to be connected to the public water system, the estimated cost is \$4.2 million.

Project Management

Muskegon County will perform all engineering, plans, specifications, bidding, inspection, legal, project oversight, and grant administration services for this project. The Public Works Department has connected residential homes to the public water system under Part 201 so it has the experience to perform these services in an efficient manner. Attached is documentation of a similar project the County executed in 2010 (Attachment "C").

The following items are enclosed:

1. Drinking Water Contaminant Remediation Grant Application,
2. DEQ Drinking Water Contaminant Remediation Grant Agreement.

Thank you in advance for your consideration of this grant request. The City of Norton Shores and Muskegon County requests an expedited review and approval process to ensure the protection of public health.

Should you have any questions, concerns, or need additional information, please do not hesitate to contact me.

Respectfully submitted,

Mark C. Meyers
City Administrator

C: Mark Eisenbarth, County Administrator (via email)
Abby Hendershott, DEQ (via email)
Kathy Moore, Muskegon County Health Officer (via email)
Matthew Farrar, Muskegon County Public Works Director (via email)
Colton Peirce, DEQ (via email)