



Municipal Utilities Commission

410 Academy St.
P. O. Box 14
Cambridge, MD 21613

410-228-5440
fax 410-2281019

City of Cambridge, City Council
410 Academy St.
Cambridge, MD 2161

03/17/2016

Dear Council,

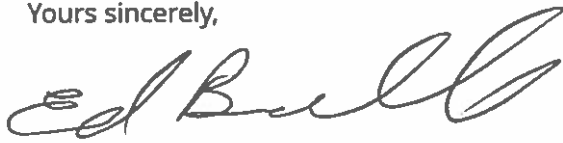
Upon receiving your Advice of City Council, dated 03/15/2016, I immediately pulled the records of water pressure throughout the city, and instructed the MUC operators to perform hydrant flow tests at different locations in the city. As far back as I could check, there have been no instances showing pressures less than 47 psi anywhere in the city. These pressures are taken at the four pumping stations. I realize that the pressure at the stations may be higher than what is throughout the system, so I rely on the flow tests for a more accurate picture of our system's condition.

The flow tests taken show the minimum amount of water available at any of the test hydrants to be 1969 gallons per minute, and the amounts available at or near the High School to be over 4000 gallons per minute. The National Fire Protection Association, (NFPA), describes fire flows as follows:

1500 GPM or more	Very Good Flow
1000 – 1499 GPM	Good for residential areas
500 – 999 GPM	Marginally adequate
Below 500 GPM	Inadequate

The number one priority at MUC is to provide potable water to the residents of the city, in quantities that is sufficient for fire protection and that is safe to drink. We take this responsibility very seriously and strive to exceed all expectations. If there are any areas where you feel that we are not meeting these demands, please feel free to let us know

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ed Bramble". The signature is fluid and cursive, with the first name "Ed" and last name "Bramble" clearly distinguishable.

Ed Bramble

Assistant Superintendant

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On 3/16/16, MUC performed a hydrant flow test at 2424 CHURCH CREEK RD

The static/residual hydrant was located at 2410 CHURCH CREEK RD
Hydrant # C-357

The flow hydrant was located at 2424 CHURCH CREEK RD
Hydrant # C-355

MUC flowed water from the flow hydrant through a 2 1/2" outlet with a pitot tube. The results are as follows:

Static pressure 50
Residual pressure 42
Pitot pressure 33
Theoretical flow (gpm) 1969
Hydrant coefficient .90
Actual flow (gpm) 964

The test was conducted by STEVEN KOETHE & ETHAN DELUDE

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On 3/16-16, MUC performed a hydrant flow test at LOCUST ST & GLENBURN AVE

The static/residual hydrant was located at LOCUST ST & OAKLEY ST
Hydrant # C-19

The flow hydrant was located at LOCUST ST & GLENBURN AVE
Hydrant # C-13

MUC flowed water from the flow hydrant through a 2 1/2" outlet with a pitot tube. The results are as follows:

Static pressure 45

Residual pressure 40

Pitot pressure 2.5

Theoretical flow (gpm) 2001

Hydrant coefficient .90

Actual flow (gpm) 839

The test was conducted by Steven Koethe Ethan delude

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On 3-16-16, MUC performed a hydrant flow test at WOODS RD / TICKETS

The static/residual hydrant was located at WOODS RD / TICKETS 50

Hydrant # SHRUB C95

The flow hydrant was located at WOODS RD & CAMBRIDGE PLAZA SHOPPING CENTER

Hydrant # C-70

MUC flowed water from the flow hydrant through a 2 1/2" outlet with a pitot tube. The results are as follows:

Static pressure 48

Residual pressure 44

Pitot pressure 33

Theoretical flow (gpm) 2757

Hydrant coefficient .90

Actual flow (gpm) 964

The test was conducted by STEVEN KOETHE & ETHAN DEZUDE

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On 3/16/16, MUC performed a hydrant flow test at WOODS RD ~~RT/16~~
E ASTOR CIRCLE

The static/residual hydrant was located at WOODS RD - RT/16
Hydrant # C104.

The flow hydrant was located at WOODS RD - ASTOR Cir.
Hydrant # C105.

MUC flowed water from the flow hydrant through a 2 1/2" outlet with a pitot tube. The results are as follows:

Static pressure 48

Residual pressure 46

Pitot pressure 37

Theoretical flow (gpm) 4245

Hydrant coefficient .90

Actual flow (gpm) 1020

The test was conducted by Steven Koetne & Ethan Delude.

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On 3/16/16, MUC performed a hydrant flow test at ~~RT 16~~ MAPLE DAM RD
& CSDHS

The static/residual hydrant was located at RT 16 / Maple Dam Rd
Hydrant # C141

The flow hydrant was located at Maple Dam / High School
Hydrant # C145

MUC flowed water from the flow hydrant through a 2 1/2" outlet with a pitot tube. The results are as follows:

Static pressure 50

Residual pressure 48

Pitot pressure 37

Theoretical flow (gpm) 4406

Hydrant coefficient .90

Actual flow (gpm) 1020

The test was conducted by Steven Koethe & Ethan Delude