



**Regular City Council Meeting**  
**7:00 p.m., Tuesday, September 4, 2018**  
**Conference Room**  
**23600 Liberty Street**  
**Farmington, MI 48335**

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## **REGULAR MEETING AGENDA**

- 1. Roll Call**
- 2. Approval of Agenda**
- 3. Public Comment**
- 4. Presentation: Oakland Water Resource Commissioner**
- 5. Consideration to Amend Fiscal Year 2018/19 Budget for Emergency Repair of the Caddell Drain**
- 6. Consideration to Approve Payment of Caddell Drain Special Assessment**
- 7. First Reading of Proposed Ordinance to Amend the City of Farmington Code of Ordinances, Chapter 31, to Increase Fines for Repeat Parking Offenders**
- 8. First Reading of Proposed Ordinance to Amend the City of Farmington Code of Ordinances, Chapter 28, Requiring Motorists to Stop for Pedestrians at a Non-Signaled Crosswalk**
- 9. First Reading of Proposed Ordinance to Amend the City of Farmington Code of Ordinances, Chapter 20, to Include Vape and Electronic Cigarettes**
- 10. Consideration to Approve Amendment No. 3 to the Water Services Contract between the City of Farmington and Great Lakes Water Authority (GLWA)**
- 11. Other Business**
- 12. Council Comment**
- 13. Adjournment**

<b>Farmington City Council Staff Report</b>	<b>Council Meeting Date: September 4, 2018</b>	<b>Item Number 5</b>
<b>Submitted by:</b> Christopher M. Weber, Director of Finance and Administration		
<b>Agenda Topic:</b> Consideration to Amend Fiscal Year 2018/19 Budget for Emergency Repair of the Caddell Drain.		
<b>Proposed Motion:</b> Move to adopt resolution amending Fiscal Year 2018/19 Budget.		
<b>Background:</b>  The City has been notified by the Drain Commission of a special assessment for emergency repairs to the Caddell Drain. The amount of the assessment is \$34,272 and is due immediately. Funds to pay for the assessment will be drawn from the General Fund's fund balance.		
<b>Materials:</b> Budget Resolution		

CITY OF FARMINGTON

RESOLUTION \_\_\_\_\_

Motion by, \_\_\_\_\_ seconded by, \_\_\_\_\_

BE IT RESOLVED that the Farmington City Council hereby adjusts the 2018-2019 budget as shown below; Budget Amendment No. 1

**Budget Amendment No 1**

**Fund: General Fund**

**Public Services**

**\$34,272**

**Appropriation, Fund Balance**

**\$34,272**

**To add payment to Oakland County for emergency repairs to Caddell Drain.**

BE IT FURTHER RESOLVED that the City Treasurer is hereby authorized to pay all claims and accounts properly chargeable to the foregoing appropriations provided that said claims and accounts have been lawfully incurred and approved by Council, Board, Commission or other City Officer authorized to make such expenditures, and

BE IT FURTHER RESOLVED that the City Manager shall prepare for the Council a financial report each quarter on the status of City funds as contained within the City budget.

Roll Call:

Ayes:

Nays:

Absent:

RESOLUTION DECLARED ADOPTED

\_\_\_\_\_  
MARY J. MULLISON, CITY CLERK

I, Mary J. Mullison, duly authorized Clerk for the City of Farmington, do hereby certify that the foregoing is a true and correct copy of a resolution adopted by the Farmington City Council at a regular meeting held Tuesday, September 4, 2018 in the City of Farmington, Oakland County, Michigan.

\_\_\_\_\_  
MARY J. MULLISON, CITY CLERK

<b>Farmington City Council Staff Report</b>	<b>Council Meeting Date: September 4, 2018</b>	<b>Item Number 6</b>
<b>Submitted by:</b> Christopher M. Weber, Director of Finance and Administration		
<b>Agenda Topic:</b> Consideration to Approve Payment of Caddell Drain Special Assessment.		
<b>Proposed Motion:</b> Move to Approve Payment of Caddell Drain Special Assessment.		
<b>Background:</b>  The City has been notified by the Drain Commission of a special assessment for emergency repairs to the Caddell Drain. The amount of the assessment is \$34,272 and is due immediately. Funds to pay for the assessment will be drawn from the General Fund's fund balance.		
<b>Materials:</b> Invoice and Special Assessment		



# INVOICE

Invoice: DSA0001381  
 Invoice Date: 8/1/2018  
 Page: 1 of 1

Make Checks Payable to  
 OAKLAND COUNTY  
 TREASURERS-CASH ACCTG BLDG 12 E  
 1200 N TELEGRAPH RD  
 PONTIAC MI 48341-0479

Customer No: DSA00000006  
 Payment Terms: NET 30  
 Due Date: 8/31/2018

CITY OF FARMINGTON  
 23600 LIBERTY ST  
 FARMINGTON MI 48335

**AMOUNT DUE: 34,272.00 USD**

For billing questions, please call: 248-858-1541

Original

Line	Description	Quantity	UOM	Unit Amt	Net Amount
1	Special Assessments	1.00	AMT	34,272.00	34,272.00
Subtotal:					34,272.00
<b>AMOUNT DUE:</b>					<b>34,272.00</b>

**PLEASE INCLUDE YOUR INVOICE NUMBER WHEN SUBMITTING PAYMENT.**

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE  
 CADDELL DRAIN  
 FISCAL YEAR 2019 - 2021  
 APPROVED AT THE 07/24/18 OCWRC DRAIN BOARD.


**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE CADDELL DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Farmington	11.90000%	\$ 34,272.00	\$ 34,272.00	-	-
City of Farmington Hil	60.50000%	\$ 174,240.00	\$ 174,240.00		
City of Novi	3.80000%	\$ 10,944.00	\$ 10,944.00		
State of Michigan	18.20000%	\$ 52,416.00	\$ 52,416.00		
County of Oakland	5.60000%	\$ 16,128.00	\$ 16,128.00		
<b>Total</b>	<b>100.000%</b>	<b>\$ 288,000.00</b>	<b>\$ 288,000.00</b>	<b>\$ -</b>	<b>\$ -</b>


\*Apportionment based on Final Order of Apportionment dated 06/28/1994.

Assessment Payment Due Date(s): Payment #1 08/31/2018

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Caddell Drain for the fiscal year 2019-2021 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

  
\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Caddell Drain

The foregoing Special Assessment Roll for the maintenance of the Caddell Drain was approved by the Drainage Board on 7-24-2018.

  
\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Caddell Drain

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER  
 MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE  
Caddell Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2019 through 2021

Last Assessment: \$700,000  
 Date last assessment approved: 01/21/14

Current Available Cash: (\$67,434)

Expenditure History:	Fiscal Year	Amount
	2012	\$47,593
	2013	\$87,938
	2014	\$640,361
	2015	\$54,448
	2016	\$37,984
	2017	\$17,450
	2018 YTD	\$53,218

Estimated Expenditures:	Year	Amount
	2019	\$15,000
	2020	\$15,000
	2021	\$15,000
	<b>Total</b>	<b>\$45,000</b>

**Recommended assessment:**

Current Cash Deficit \* \$67,434  
 Total Anticipated Expenses 2019-2021 \$45,000  
 Add'l Project Exp (9 Mile/Drake Culvert Eval) \$0  
 Add'l Project Exp (9 Mile/Drake Emerg Repair) \$154,566  
 Add'l Project Exp (Valley Creek Emerg Repair) \$21,000

**TOTAL RECOMMENDED ASSESSMENT \$288,000**

Prepared by: Michael R. McMahon Date: 7/24/18  
 Michael R. McMahon, P.E. - Chief Engineer

Approved by: Steven A. Korth Date: 7/24/18  
 Steven A. Korth, P.E. - Manager

Note: Current Available Cash as of May 31, 2018 Fiscal Services Division Report.  
 \* Current Cash Deficit includes approximately \$37,449 in costs already incurred for projects listed

<b>Farmington City Council Agenda Item</b>	<b>Council Meeting Date: September 3, 2018</b>	<b>Item Number 7</b>
<b>Submitted by:</b> Frank J. Demers, Public Safety Director		
<b>Agenda Topic</b> First Reading of Amendment to the Farmington City Code of Ordinances Section 31-60; Increase Fines for Repeat Parking Offenders		
<b>Proposed Motion</b> Motion to Approve First Reading of Amendment to Farmington City Code of Ordinances, Section 31-60 "Prohibited Parking"; Increased fines for Repeat Parking Offenders		
<b>Background</b> <p>The Parking Advisory Committee has engaged in ongoing discussions about how to address the problem of repeat offenders of the City's time-limited and re-parking ordinances. At the July 2018 Parking Advisory Committee meeting, data was shared with the Committee showing that a very small number of individuals have been identified as repeat offenders. A discussion on a proposed ordinance to amend Section 31-60 "Prohibited Parking" to include increased fines for repeat parking ordinance violators took place among Council at the August 20<sup>th</sup> study session.</p> <p>Following the Study Session discussion, Director Demers met with Court Administrator Dave Walsh and Court Clerk Supervisor Donna Rusher to discuss the implementation of the proposed \$100 fine for 4<sup>th</sup> and subsequent parking violations and how the court would process such violations.</p> <p>In response, both Walsh and Rusher advised that they support using historical CLEMIS data to determine repeat parking violators. They opposed any plan to create a new start date or implement any sort of adjustment to reduce fines for "good behavior" for repeat offenders who show over time that they have established some sort of record of compliance. To do so would be too difficult to track and the court does not have the personnel who could devote time to this.</p> <p>The Parking Advisory Committee is recommending that Council approve a resolution to raise the parking violation fee from \$25 to \$100 starting with the <b>4<sup>th</sup> repeat violation</b>. The Committee feels this resolution will deter individuals from repeatedly violating time-limited and re-parking ordinances.</p>		
<b>Materials Attached</b> Draft ordinance		



**STATE OF MICHIGAN**

**COUNTY OF OAKLAND**

**CITY OF FARMINGTON**

**ORDINANCE NO. C-\_\_\_\_-2018**

**AN ORDINANCE TO AMEND THE CITY OF FARMINGTON CITY CODE OF ORDINANCES, CHAPTER 31, "TRAFFIC AND MOTOR VEHICLES," ARTICLE II, "MOTOR VEHICLES AND UNIFORM TRAFFIC CODES," DIVISION 3, "ADDITIONAL REGULATIONS" TO INCREASE PARKING VIOLATION FEES STARTING WITH THE FOURTH VIOLATION**

**THE CITY OF FARMINGTON ORDAINS:**

**PART I.** Chapter 31, "Traffic and Motor Vehicles," Article II, "Motor Vehicle and Uniform Traffic Codes," Division 3, "Additional Regulations," of the City of Farmington Code of Ordinances is hereby amended to read as follows in its entirety:

Sec. 31-60. - Prohibited parking.

(a) No person shall park a vehicle in any of the following places:

- (1) On a sidewalk;
- (2) In front of any driveway;
- (3) Within an intersection;
- (4) Within fifteen (15) feet of a fire hydrant or instructional building;
- (5) On a designated crosswalk;
- (6) At any place where official signs prohibit parking;
- (7) At any place where parking is permitted for specific purposes unless the occupants of the vehicle are complying with the requirements of permitted uses;
- (8) On more than one (1) designated parking space;
- (9) On any grass or otherwise landscaped area;
- (10) On a playground or playing field.
- (11) In a parking space clearly identified by an official sign as being reserved for use by disabled persons that is on public property or private property available for public use, unless the individual is a disabled person as described in section 19a of the Michigan Motor Vehicle Code, as amended, or unless the individual is parking

the vehicle for the benefit of a disabled person. In order for the vehicle to be parked in the parking space the vehicle shall display one (1) of the following:

- a. A certificate of identification or windshield placard issued under Section 675 of the Michigan Motor Vehicle Code, as amended, to a disabled person.
  - b. A special registration plate issued under Section 803d of the Michigan Motor Vehicle Code, as amended to a disabled person.
- (12) Within thirty (30) feet of the approach to a flashing beacon, stop sign, or traffic-control signal located at the side of a highway.
- (13) In violation of an official sign restricting the period of time for or manner of parking.
- (14) Where a time limit is established by official signs in the following parking lots, no vehicle may be re-parked within the same parking lot:
- a. North of Grand River between Farmington Road, Thomas Street, and Warner Street;
  - b. South of Grand River between Farmington Road, Orchard Street, and Grove Street.
- (15) In a place or in a manner that blocks the use of an alley.
- (16) In a place or in a manner that blocks access to a space clearly designated as a fire lane.
- (b) In the event that a police officer or parking enforcement officer places on or under the tire of a motor vehicle a chalk mark or other identifying mark or object for the purpose of identifying the vehicle and its time of parking, no person shall erase or remove said chalk mark or identifying mark or object for the purpose of deceiving the ordinance officer monitoring the time which said vehicle has been parked within the lot. Violation of the provisions of this subsection shall be a civil infraction in addition to any other violation of this section for parking over the posted limit, whereby a separate citation shall be issued for violation of this subsection.
- (c) A person who violates this section shall be responsible for a civil infraction, and a fine of \$25.
- (d) A person who has four (4) or more violations for regulations established in Sec. (a) (13) & (14) is responsible for a \$100 fine.

## **Part II**      **Severability**

Should any section, subsection, paragraph, sentence, clause, or word of this ordinance be held invalid for any reason, such decisions shall not affect the validity of the remaining portions of the ordinance.



**Part III      Savings**

This amendatory ordinance shall not affect violations of the zoning ordinance or any other ordinance existing prior to the effective date of this ordinance and such violation shall be governed and shall continue to be separately punishable to the full extent of the law under the provisions of such ordinance at the time the violation was committed.

**Part IV      Effective Date: Publication.**

This amendatory ordinance shall be effective 10 days after adoption by the City Council and after publication as provided by the Charter of the City of Farmington.

Ayes:  
Nayes:  
Abstentions:  
Absent:

STATE OF MICHIGAN    )  
  )ss.  
COUNTY OF OAKLAND   )

I, the undersigned, the qualified and acting City Clerk of the City of Farmington, Oakland County, Michigan, do certify that the foregoing is a true and complete copy of the Ordinance adopted by the City Council of the City of Farmington at a meeting held on the \_\_\_\_ day of \_\_\_\_\_, 2018, the original of which is on file in my office.

\_\_\_\_\_  
SUSAN K. HALBERSTADT, City Clerk  
City of Farmington

Adopted:  
Published:  
Effective:

**Farmington City Council  
Staff Report**

**Council Meeting Date:**  
September 4, 2018

**Reference  
Number  
8**

**Submitted by:** Frank Demers, Public Safety Director

**Description** Approval of First Reading of Proposed Ordinance To Amend Chapter 28 of the Farmington City Code of Ordinances, Section 28-66 "Pedestrian Crosswalks", Requiring Motorists to Stop for a Pedestrian at a Non-Signaled Crosswalk.

**Requested Action** Motion to Approve First Reading of Ordinance to Amend Chapter 28, "Streets, Sidewalks and Other Public Places," Article III, "Streets," to Add a Provision Related to Pedestrian Crosswalks.

**Background**

In an effort to enhance pedestrian safety and contribute to a more walkable community, City Administration is recommending the passage of a proposed ordinance that requires motorists to STOP for pedestrians standing AT a crosswalk. This ordinance goes beyond the requirements listed in the Michigan Uniform Traffic Code (UTC) R 28.1702 Rule 702 that only requires motorists to YIELD to a pedestrian WITHIN a crosswalk. The City Attorney's office has drafted a proposed amendment to the Pedestrian Crosswalks ordinance.

At the August 20<sup>th</sup> Study Session, Council agreed to move forward with the implementation of the proposed ordinance.

**Materials:**

Draft of Crosswalk Ordinance

**STATE OF MICHIGAN**

**COUNTY OF OAKLAND**

**CITY OF FARMINGTON**

**ORDINANCE NO. C-\_\_\_\_-2018**

**AN ORDINANCE TO AMEND THE CITY OF FARMINGTON CITY CODE OF ORDINANCES, CHAPTER 28, "STREETS, SIDEWALKS AND OTHER PUBLIC PLACES," ARTICLE III, "STREETS," IN ORDER TO ADD A PROVISION RELATED TO PEDESTRIAN CROSSWALKS.**

**THE CITY OF FARMINGTON ORDAINS:**

**PART I.** That Chapter 28, "Streets, Sidewalks, and Other Public Places," Article III, "Streets," of the City of Farmington Code of Ordinances is hereby amended to add Section 28-66 "Pedestrian Crosswalks" to read as follows:

Section 28-66. "Pedestrian Crosswalks":

- (a) Drivers of any vehicle being driven on a street within the City shall stop at a crosswalk for any pedestrians within a marked crosswalk or a pedestrian stopped at the curb, curb line or ramp leading to a crosswalk, and shall remain stopped until the pedestrian has safely and completed crossed and exited the crosswalk.
- (b) Pedestrians shall not enter a crosswalk if it would be impossible or dangerous for an oncoming vehicle to stop.
- (c) Pedestrians crossing a roadway at any point other than within a marked or unmarked crosswalk shall yield the right-of-way to all vehicles upon the roadway.
- (d) Any person in violation of this Section shall be guilty of a municipal civil infraction.

**Part II      Severability**

Should any section, subsection, paragraph, sentence, clause, or word of this ordinance be held invalid for any reason, such decisions shall not affect the validity of the remaining portions of the ordinance.

**Part III      Savings**

This amendatory ordinance shall not affect violations of the zoning ordinance or any other ordinance existing prior to the effective date of this ordinance and such violation shall be governed and shall continue to be separately punishable to the full extent of the law under the provisions of such ordinance at the time the violation was committed.

**Part IV**      **Effective Date: Publication.**

This amendatory ordinance shall be effective 10 days after adoption by the City Council and after publication as provided by the Charter of the City of Farmington.

Ayes:  
Nays:  
Abstentions:  
Absent:

STATE OF MICHIGAN    )  
                                  )ss.  
COUNTY OF OAKLAND   )

I, the undersigned, the qualified and acting City Clerk of the City of Farmington, Oakland County, Michigan, do certify that the foregoing is a true and complete copy of the Ordinance adopted by the City Council of the City of Farmington at a meeting held on the \_\_\_\_ day of \_\_\_\_\_, 2018, the original of which is on file in my office.

\_\_\_\_\_  
SUSAN K. HALBERSTADT, City Clerk  
City of Farmington

Adopted:  
Published:  
Effective:

<b>Farmington City Council Staff Report</b>	<b>Council Meeting Date: September 4, 2018</b>	<b>Item Number 9</b>
<b><u>Submitted by:</u></b> Frank Demers, Public Safety Director		
<b><u>Agenda Topic</u></b> Approve first reading of ordinance to amend the City of Farmington Code of Ordinances, Chapter 20, to include Vape and Electronic Cigarettes.		
<b><u>Proposed Motion:</u></b> Motion to Approve First Reading of Ordinance to Amend the City of Farmington Code of Ordinances, Chapter 20, to include Vape and Electronic Cigarettes		
<b><u>Background:</u></b>  <p>“Vaping” refers to the inhale and exhale of vapor produced by an electronic cigarette or similar device. The practice of “vaping” among the youth in our community is a growing problem. The department’s School Resource Officer (SRO) has reported that vaping among youth continues to be a problem in and around the schools and disrupts the teaching environment.</p> <p>In Michigan, the sale of cigarettes and other tobacco products is governed by state law. The Youth Tobacco Act (Public Act 31 of 1915) prohibits the sale of <b>tobacco</b> products to a minor. The law also prohibits a minor from purchasing, possessing, or using tobacco products. The Act defines a minor as an “individual under 18 years of age.” MCL 722.644(a).</p> <p>At this time, vape and electronic cigarette devices technically are not a part of this “tobacco product” definition as the key element is <b>nicotine</b>. There is, however, pending legislation that would change this and add such devices to the definition. Additionally, the federal government has banned the sale of these vape/e-cigarette products to minors. So right now, the sale of vape and electronic cigarettes to minors is technically not regulated under Michigan law, but is illegal under federal law.</p> <p>In an effort to address the problem of use and abuse of vape products among youth, many communities have passed local ordinances that regulate the use and sale of vape products and vape devices to minors. In consultation with the City Attorney’s office, a draft ordinance regulating the sale and use of nicotine vape products in Farmington has been prepared for Council review.</p> <p>At the August 20<sup>th</sup> Study Session, discussion was had among City Council to consider an amendment to the City’s tobacco ordinance to include language regulating the use and sale of vape devices to minors. Following that discussion, City Council agreed to move forward with the implementation of the proposed ordinance.</p>		
<b><u>Materials:</u></b> -Draft Ordinance		



**STATE OF MICHIGAN**

**COUNTY OF OAKLAND**

**CITY OF FARMINGTON**

**ORDINANCE NO. C-\_\_\_\_-2018**

**AN ORDINANCE TO AMEND THE CITY OF FARMINGTON CITY CODE OF ORDINANCES, CHAPTER 20, "OFFENSES," ARTICLE VIII, "OFFENSES PERTAINING TO MINORS," IN ORDER TO AMEND SECTION 254 TO INLCUDE VAPE AND ELECTRONIC CIGARETTES IN THIS SECTION.**

**THE CITY OF FARMINGTON ORDAINS:**

**PART I.** That Chapter 20, "Offenses," Article VIII, "Offenses Pertaining to Minors," of the City of Farmington Code of Ordinances is hereby amended to read as follows:

**Sec. 20-254. – Smoking and Possession of Tobacco Products by Minors.**

a) Definitions. The following words, terms and phrases when used in this division have the meaning provided except where the context clearly indicates a different meaning:

*Nicotine product* means the highly toxic alkaloid found in tobacco, presented in tobacco, or in some other form for ingestion, including, but not limited to water soluble nicotine containing substances, and devices which deliver nicotine through vapor or other means for ingestion, such as electronic cigarettes, hookah pens, or other similar devices.

*School district* means a school district, local school district, or intermediate school district, as those terms are defined in the school code of 1976 Act No. 451 of the Public Acts of Michigan of 1976 (MCL 380.1 et seq.), as amended or a charter school, consortium, or cooperative arrangement, or any combination of these.

*School property* means a building facility, or structure, or other real estate owned, leased, occupied, or controlled by a school district.

*Smoking or smoke* means the possession by a person of a lighted cigar, cigarette, pipe, or other lighted smoking device, or activated device which delivers nicotine through vapor or other means, or ingestion electronically such as electronic cigarettes, hookah pens, or other similar devices.

*Tobacco products* means preparation of tobacco to be ingested by any means including but not limited to smoked, vaporized, chewed or inhaled.

*Use of tobacco product and/or nicotine product* means any of the following:

- 1) The possession of a lighted cigar, cigarette, pipe, or other lighted smoking device.
- 2) The possession of a device which delivers nicotine through vapor, or other means which is for ingestion, including, but not limited to electronic cigarettes, hookah pens, or other similar devices.

3) The ingestion of a tobacco product by any means.

b) Furnishing tobacco products to minors prohibited.

No person shall furnish, give, or sell any tobacco product or nicotine product in any form to a person under the age of eighteen (18) years of age. A person who violates this section shall be guilty of a misdemeanor punishable by a fine of not more than fifty dollars (\$50.00) for each offense.

c) Tobacco and nicotine products on school property.

A person shall not smoke a tobacco product or nicotine product on school property. A person who violates this subsection is guilty of a misdemeanor punishable by a fine of not more than fifty dollars (\$50.00).

d) Smoking, use, or possession of tobacco and nicotine products by a minor in public; penalty.

A person under the age of eighteen (18) years shall not possess, smoke, or use nicotine products or tobacco products anywhere within the City of Farmington, State of Michigan. A person who violates this section is guilty of a misdemeanor punishable by a fine of not more than fifty dollars (\$50.00) for each offense.

**Part II**      **Severability**

Should any section, subsection, paragraph, sentence, clause, or word of this ordinance be held invalid for any reason, such decisions shall not affect the validity of the remaining portions of the ordinance.

**Part III**      **Savings**

This amendatory ordinance shall not affect violations of the zoning ordinance or any other ordinance existing prior to the effective date of this ordinance and such violation shall be governed and shall continue to be separately punishable to the full extent of the law under the provisions of such ordinance at the time the violation was committed.

**Part IV**      **Effective Date: Publication.**

This amendatory ordinance shall be effective 10 days after adoption by the City Council and after publication as provided by the Charter of the City of Farmington.

Ayes:  
Nays:  
Abstentions:  
Absent:

STATE OF MICHIGAN    )  
                                  )ss.

COUNTY OF OAKLAND )

I, the undersigned, the qualified and acting City Clerk of the City of Farmington, Oakland County, Michigan, do certify that the foregoing is a true and complete copy of the Ordinance adopted by the City Council of the City of Farmington at a meeting held on the \_\_\_\_ day of \_\_\_\_\_, 2018, the original of which is on file in my office.

---

SUSAN K. HALBERSTADT, City Clerk  
City of Farmington

Adopted:  
Published:  
Effective:

<b>Farmington City Council Staff Report</b>	<b>Council Meeting</b> <b>Date:</b> September 4, 2018	<b>Item Number</b> <b>10</b>
<b>Submitted by:</b> Charles Eudy, Superintendent		
<b>Agenda Topic:</b> Consideration to Approve Amendment No. 3 to the Water Services Contract between the City of Farmington and Great Lakes Water Authority (GLWA)		
<b>Proposed Motion:</b> Move to approve Amendment No. 3 to the existing water services contract with the GLWA and authorize the Mayor and City Clerk to sign the agreement on behalf of the City.		
<p><b>Background:</b>  City Administration is recommending approval of Amendment No. 3 to the existing water services contract with Great Lakes Water Authority (GLWA). City representatives met with GLWA representatives to update the water services contract which was originally approved in 2009. GLWA is meeting with all of its suburban customers to discuss modest language changes to the agreement, to review flow data over the last few years to determine if quantity changes are necessary, and to verify if there have been any changes to the system.</p> <p>Attached is a letter from Beth Saarela with Johnson, Rosati, Schultz and Joppich detailing the changes in the agreement. City representatives present at the negotiation's included City Manager David Murphy, Director of Finance and Administration Chris Weber, Superintendent of Public Works Charles Eudy, and Vyto Kaunelis with Orchard Hiltz McCliment Advisors (OHM). As part of the negotiations, it was agreed to reduce projected annual volume amount based on current usage and national trends. Either party or OHM believe reducing the annual volume will be impacted with the planned redevelopment in the community. In 2011, the Public Works Department in conjunction with Oakland County Water Resource Commission, made improvements to the system in order to manage peak hour consumption. The changes continue to work as designed and consequently have not changed the peak hour demands.</p>		
<p><b>Materials:</b>  Letter to City Manager  Farmington Water Contract Amendment No. 3  GLWA – Farmington Contract Reopener Data</p>		

ELIZABETH KUDLA SAARELA  
esaarela@jrsjlaw.com

27555 Executive Drive, Suite 250  
Farmington Hills, Michigan 48331  
P 248.489.4100 | F 248.489.1726  
www.jrsjlaw.com



August 24, 2018

Charles Eudy  
Superintendent, Department of Public Works  
City of Farmington  
33720 W. Nine Mile Road  
Farmington, MI 48335 Benjamin Croy, Water & Sewer Senior Manager

**RE: Amendment No. 3 to Water Service Contract Between the Great Lakes Water Authority and City of Farmington**

Dear Mr. Eudy:

We have received and reviewed proposed Amendment No. 3 to the Water Service Contract between the Great Lakes Water Authority (GLWA) and the City of Farmington. The proposed Amendment is a voluntary Amendment made at GLWA's request for the purpose of placing all contract customers on the same "re-opener" schedule. The re-opener schedule gives the parties the opportunity, on a regularly scheduled basis, to adjust contract values to more accurately reflect the City's recent water usage patterns. Following this Amendment, the re-opener will occur every four (4) years.

As a result of the Amendment, the City's contract values will change resulting in a reduced projected annual volume schedule. The reduction will slightly reduce the City's annual cost. However, once all first tier Contract Amendments have been completed, GLWA's cost per cubic foot will likely require adjustment, which may impact the overall cost to each first tier customer, including the City. Any resulting cost adjustment would likely be minor.

The Contract Amendment provides for amended Exhibit A sheets describing the scope of the City's water system (meter pit locations) and amended Exhibit B sheets with updated "Max Day" and "Peak Hour" schedules.

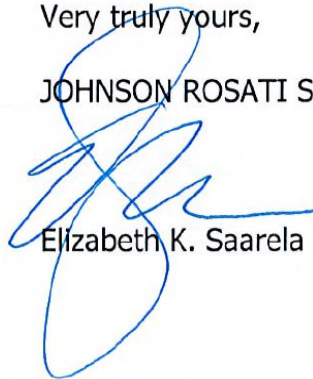
Subject to the review and approval of the technical aspects of the proposed amended Exhibits A and B setting new operational parameters by the City's Public Works Division, we see no legal impediment to approval of Amendment No. 3 of the Water Service Contract. Except for the amended Exhibits, and the schedule for re-opening the Contract, all other terms and conditions of the Contract will remain unchanged.

Please feel free to contact me with any questions or concerns in regard to this matter.

Chuck Eudy, Superintendent, Department of Public Works  
City of Farmington  
August 24, 2018  
Page 2

Very truly yours,

JOHNSON ROSATI SCHULTZ JOPPICH

A handwritten signature in blue ink, appearing to read 'Elizabeth K. Saarela', is written over the typed name. The signature is stylized and somewhat abstract.

Elizabeth K. Saarela

EKS

Enclosure

C: Sue Halberstadt and Mary Mullison, City Clerk's Office (w/Enclosure)  
Dave Murphy, City Manager (w/Enclosure)  
Thomas R. Schultz, Esquire (w/Enclosure)

**AMENDMENT NO. 3 TO WATER SERVICE CONTRACT  
BETWEEN  
GREAT LAKES WATER AUTHORITY  
AND  
CITY OF FARMINGTON**

This Amendment Agreement No. 3 (“Amendment”) is made between the Great Lakes Water Authority, a municipal authority and public body corporate (“GLWA”), and the City of Farmington, a municipal corporation (“Customer”). GLWA and Customer are collectively referred to as the “Parties”.

**RECITALS**

- a. GLWA leases, operates and maintains the public water supply system owned by the City of Detroit (“System”); and
- b. On June 23, 2009, the Parties entered into a Water Service Contract (“Contract”) reflecting the terms and conditions governing the delivery and purchase of potable water, as subsequently amended and assigned; and
- c. Article 15 of the Contract permits the Parties to amend the Contract by mutual agreement; and
- d. Through the One Water Partnership, GLWA customer members requested that GLWA undertake an effort to place all customers on the same periodic contract review schedule (“Reopener Schedule”) to assist in reducing, as much as practicable, volatility in customer charges; and
- e. GLWA agreed to devise a contract alignment process (“CAP”) which would result in all model contracts being reopened on a four-year schedule beginning in calendar year 2022 and every four years thereafter; and
- f. The CAP requires that, regardless of Customer’s current Reopener Schedule, that Customer’s Contract be amended in calendar year 2018; and
- g. In consideration of the mutual undertakings of the Parties and for the benefit of the public, it is the mutual desire of the Parties to enter into this Amendment to amend the Contract as set out in detail in the following sections; and

**ACCORDINGLY, THE PARTIES AGREE AS FOLLOWS:**

1. Section 5.07 of the Contract is deleted in its entirety and replaced with the following:

5.07 Periodic Review and Reopener. For Customer and System planning purposes and, regarding the Minimum Annual Volume, enforcement of the provisions of Article 3, Maximum Flow Rates, Pressure Ranges, Projected Annual Volumes and Minimum Annual Volumes (collectively, “Values”) shall be established by mutual agreement for the Contract Term. As of calendar year 2018, the Parties shall review the Values in calendar year 2022 and every four years thereafter for the Contract Term and any renewal terms (each review year a “Reopener Year”, and collectively the Reopener Years comprising the “Reopener

Schedule”). However, if Customer executes the Contract more than two years before the next Reopener Year, then the Reopener Schedule set forth in bold type in Exhibit B, Table 2, shall be modified and shown to permit one additional Reopener Year prior to the next Reopener Year in the Reopener Schedule. The Values shall be contractually binding between each Reopener Year. If the Parties do not negotiate Values according to the Reopener Schedule, then the Values established for planning purposes (as shown in italicized type in Exhibit B) shall become contractually binding until the next Reopener Year.

2. Exhibit A of the Contract is amended by deleting in its entirety the existing Exhibit A and substituting the attached Exhibit A in its place.
3. Exhibit B of the Contract is amended by deleting in its entirety the existing Exhibit B and substituting the attached Exhibit B in its place.
4. With the exception of the provisions of the Contract specifically contained in this Amendment, all other terms, conditions and covenants contained in the Contract shall remain in full force and effect and as set forth in the Contract.
5. This Amendment to the Contract shall be effective and binding upon the Parties when it is signed and acknowledged by the duly authorized representatives of both Parties, and is approved by Customer’s governing body and the GLWA Board of Directors.

*(Signatures appear on next page)*



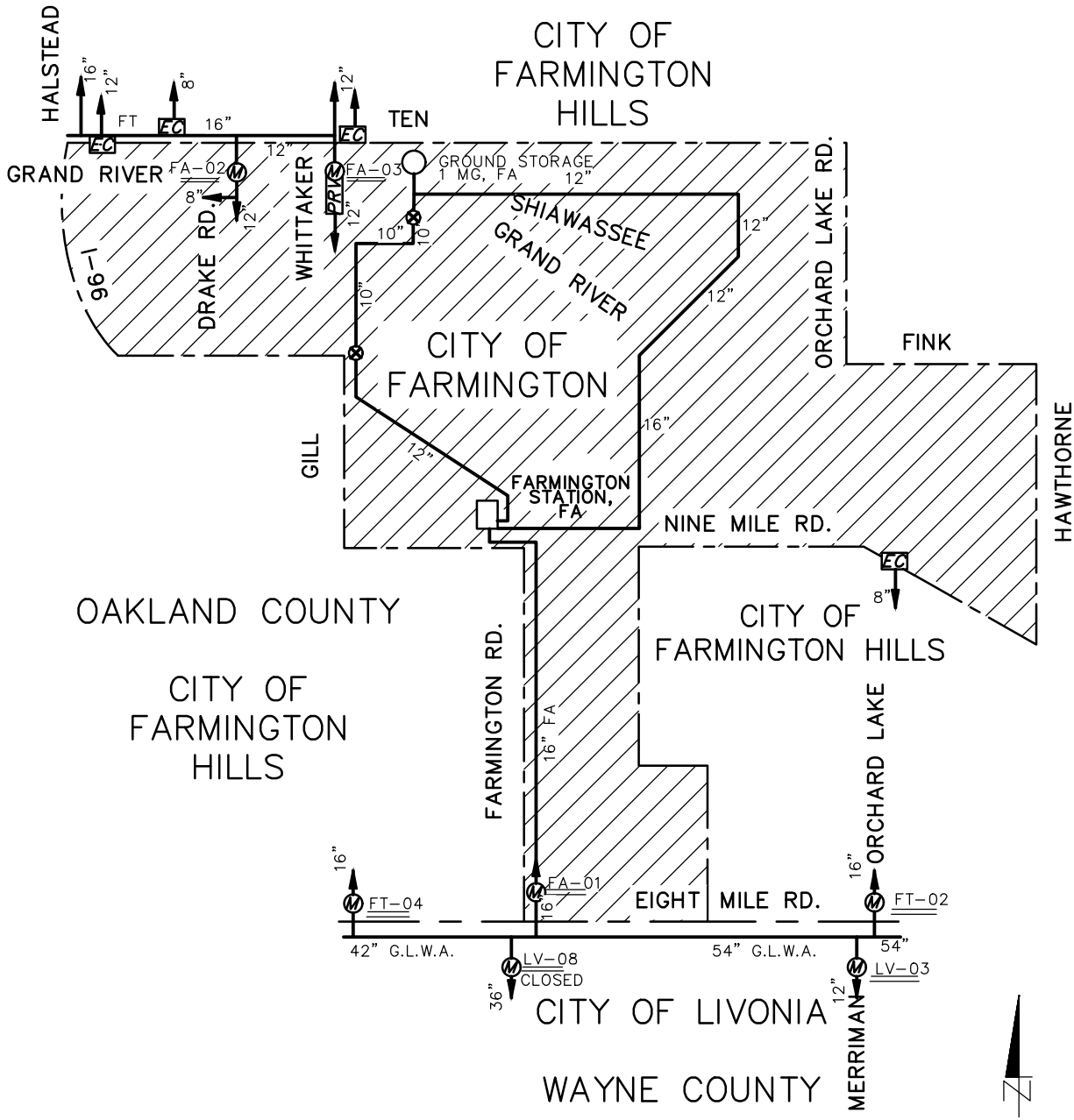


## EXHIBIT A

### Customer's Water Distribution Points

This Exhibit contains the following information:

1. The corporate limits of Customer;
2. The agreed upon water Service Area of Customer which (a) may or may not be entirely within the corporate limits of Customer and (b) which may or may not include the entire area within the Customer's corporate limits;
3. The specific location of the Water Distribution Points, including any Board approved emergency connections;
4. The designation of appurtenances to be maintained by Customer and those to be maintained by the Board; and
5. A list of any closed meter locations.



LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GLWA METER PIT	--- ---	CITY LINE
	COMM METER PIT		GRD. STORAGE
	SERVICE AREA		GATE VALVE
	EMERGENCY CONNECTION		
	PRV		

EXHIBIT-A

SERVICE AREA LOCATION MAP  
CITY OF FARMINGTON

**EXHIBIT A**

**City of Farmington Emergency Connections:**

Connections to Farmington Hills

- 12” GV&W – 37375 Grand River, Farmington (at Halsted Road)
- 8” GV&W – 31233 Grand River, Farmington (at Nine Mile Road)
- 12” GV&W – 36175 Grand River, Farmington (at Martel Drive)
- 12” GV&W – 34635 Grand River (Bypass main of the FA-03 deduct meter)

**City of Farmington Water Customers Outside Municipal Limits:**

<b>FARMINGTON HILLS</b>		
31208 Fink	24105 Locust	32225 Nine Mile
31186 Fink	24211 Farmington	32231 Nine Mile
31164 Fink	24205 Farmington	32235 Nine Mile
31142 Fink	23225 Gill	32401 Nine Mile
31120 Fink	23225 Gill	
30812 Fink	33638 Hillcrest	
31100 Fink	33636 Hillcrest	
23233 Drake	35250 Freedom	
23200 Drake	36216 Freedom	
<b>Mission Creek Subdivision</b>		
23264 Woodhaven Court	23242 Woodhaven Court	23221 Woodhaven Court
23265 Woodhaven Court	23176 Woodhaven Court	23243 Woodhaven Court
23287 Woodhaven Court	23154 Woodhaven Court	23132 Woodhaven Court
23208 Mission Lane	23184 Mission Lane	23162 Mission Lane
23150 Mission Lane	23177 Mission Lane	23196 Mission Lane
23155 Mission Lane		
<b>Beechwood Subdivision</b>		
23025 Gill	23011 Gill	23375 Gill
22975 Gill	34450 Freedom	34420 Beechwood
34436 Beechwood	34421 Beechwood	34456 Beechwood
34663 Beechwood	34455 Beechwood	34478 Beechwood
34660 Beechwood	34639 Beechwood	34651 Beechwood
34479 Beechwood	34672 Beechwood	34638 Beechwood
34600 Beechwood	34652 Beechwood	34621 Beechwood
34603 Beechwood	34620 Beechwood	34437 Beechwood
<b>Westchester Subdivision</b>		
23010 Julieann Ct.	23077 Julieann Ct.	23163 Julieann Ct.
23027 Julieann Ct.	23098 Julieann Ct.	23164 Julieann Ct.
23032 Julieann Ct.	23115 Julieann Ct.	23185 Julieann Ct.
23045 Julieann Ct.	23120 Julieann Ct.	23186 Julieann Ct.
23054 Julieann Ct.	23123 Julieann Ct.	23208 Julieann Ct.

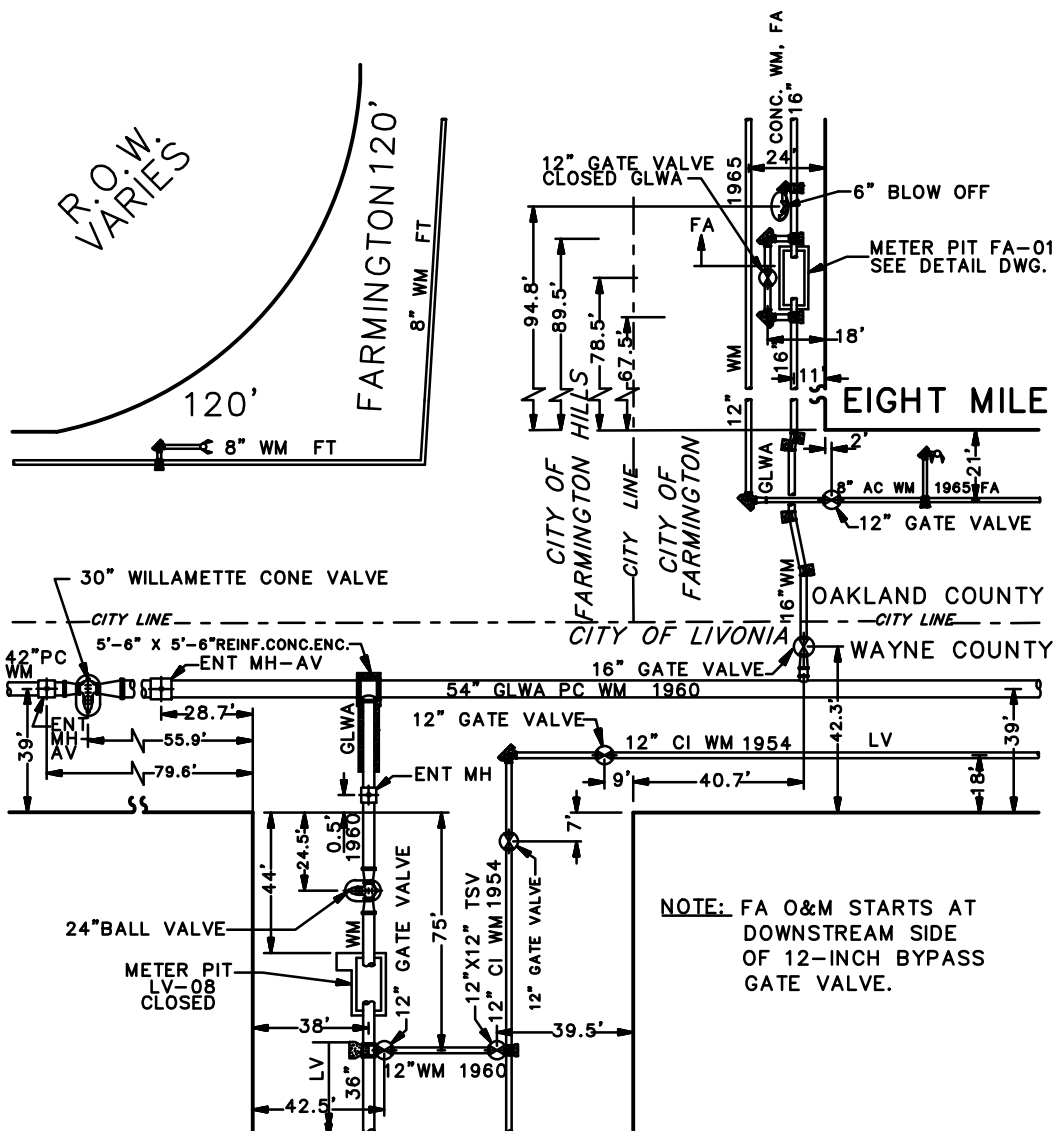
23061 Julieann Ct.	23142 Julieann Ct.	23230 Julieann Ct.
23076 Julieann Ct.	23143 Julieann Ct.	23252 Julieann Ct.
<b>Pinewoods West Subdivision</b>		
23245 Potomac	23113 Potomac	23219 Potomac
23257 Potomac	23121 Potomac	23207 Potomac
23269 Potomac	23155 Potomac	23244 Potomac
23277 Potomac	23188 Potomac	23020 Potomac
23285 Potomac	23174 Potomac	23054 Potomac
23293 Potomac	23009 Potomac	23072 Potomac
23012 Potomac	23027 Potomac	23049 Potomac
23065 Potomac	23040 Potomac	23033 Potomac
23089 Potomac	23081 Potomac	23015 Potomac
23139 Potomac	23105 Potomac	23218 Potomac
23060 Potomac	23147 Potomac	23236 Potomac
23291 Potomac	23171 Potomac	23280 Potomac
23183 Potomac	23210 Potomac	23048 Potomac
23057 Potomac	23041 Potomac	23080 Potomac
23073 Potomac	23034 Potomac	23156 Potomac
23097 Potomac	23231 Potomac	
<b>Greenbriar Estates Subdivision</b>		
35561 Lark Harbor	35553 Lark Harbor	35557 Lark Harbor
35551 Lark Harbor	35555 Lark Harbor	35559 Lark Harbor
<b>Freedom Square Apartments</b>		
34764 Freedom	34872 Freedom	34848 Freedom
34792 Freedom	34900 Freedom	34848 Freedom
34826 Freedom		

**City of Farmington Master Meters Not In Service:**

None.

EXHIBIT-A  
FA-01

FARMINGTON NORTH OF EIGHT MILE RD.  
CITY OF FARMINGTON



FA-CITY OF FARMINGTON  
OWNERSHIP AND MAINTENANCE  
FT-CITY OF FARMINGTON HILLS  
OWNERSHIP AND MAINTENANCE  
LV-CITY OF LIVONIA  
OWNERSHIP AND MAINTENANCE  
GLWA - GREAT LAKES WATER AUTHORITY  
OPERATION AND MAINTENANCE  
(CITY OF DETROIT OWNERSHIP)

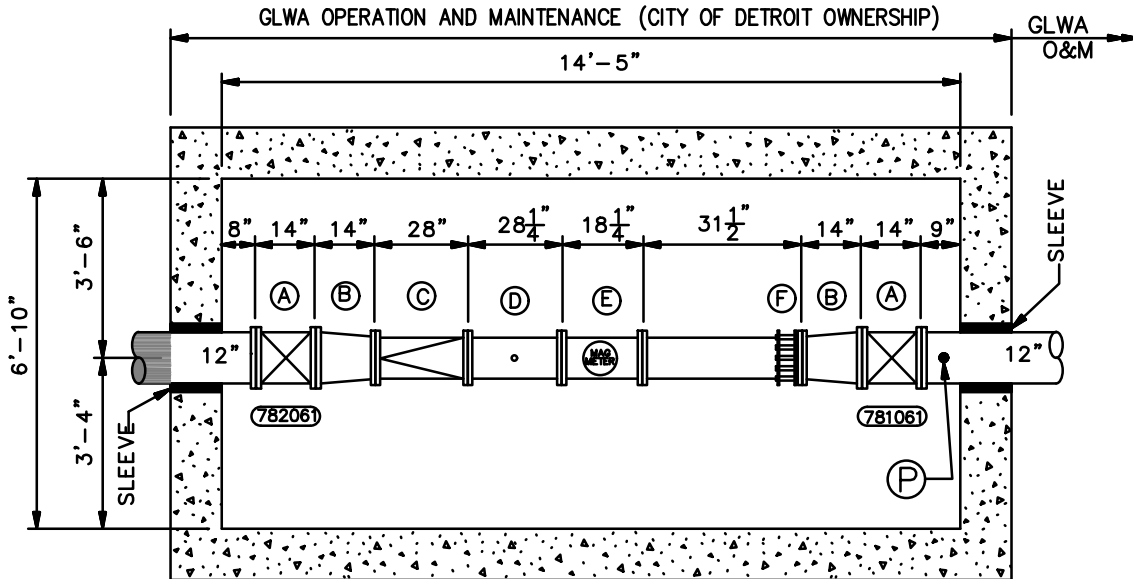
SITE PLAN  
NOT TO SCALE



LOCATIONS SUBJECT  
TO VERIFICATION IN  
THE FIELD.



# EXHIBIT-A FA-01 FARMINGTON NORTH OF EIGHT MILE RD. CITY OF FARMINGTON



## METER PIT DETAIL

█ CITY OF FARMINGTON O&M

NOT TO SCALE



LEGEND			
TAG	QTY	DESCRIPTION	SIZE
A	2	GATE VALVE	12"
B	2	FLGD. CONCENTRIC REDUCERS, D.I., 14" F-F	12" x 10"
C	1	CHECK VALVE	12"
D	1	TEST TEE	-
E	1	MAG METER	10"
F	1	'MEGA FLANGE	10"

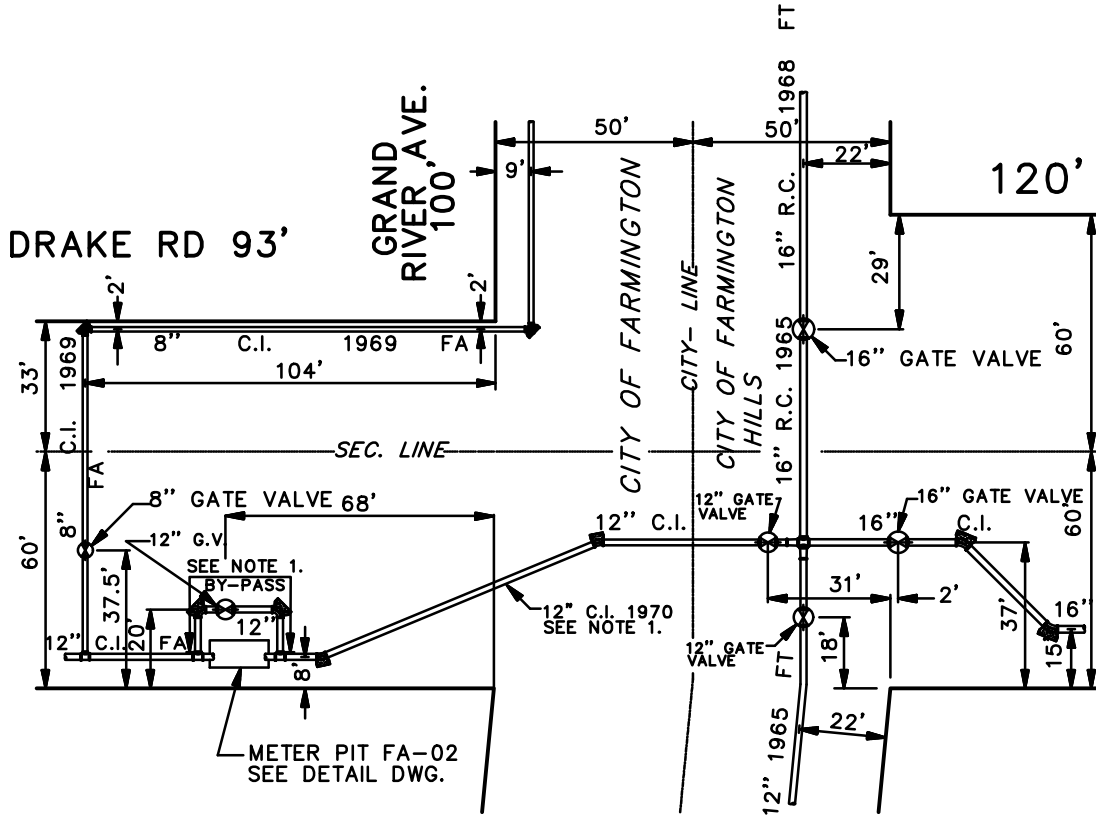
TYPICAL PRESSURE LOSS THRU METER	
METER TYPE	P.S.I. LOSS
VENTURI	1 TO 2
MAG	0
TURBINE	4 - 6

Ⓟ UPSTREAM PRESSURE TRANSMITTER,  
G.L.W.A. OPERATION & MAINTENANCE  
(CITY OF DETROIT OWNERSHIP)

ADDRESS ----- 20750 FARMINGTON  
 FEED TO ----- CITY OF FARMINGTON  
 FEED FROM ----- 54" G.L.W.A. TRANSMISSION MAIN  
 TYPE OF METER ----- SIEMENS MAG 5100W  
 SIZE OF METER ----- 10" / DN250  
 METER NUMBER ----- 559903U355  
 DATE METER SET ----- 12/5/2015  
 METER PIT CONST & SIZE ----- 14'-5" x 6'-10" I.D. REINF. CONCRETE  
 GATE BOOK ----- W-1264  
 FIELD BOOK ----- F.B. 1965-F-55  
 REMARKS -----

FA  
01

# EXHIBIT-A FA-02 GRAND RIVER AND DRAKE CITY OF FARMINGTON



NOTE:  
1. OWNERSHIP, OPERATION, AND MAINTENANCE IS NOT GLWA'S.

**SITE PLAN**  
NOT TO SCALE

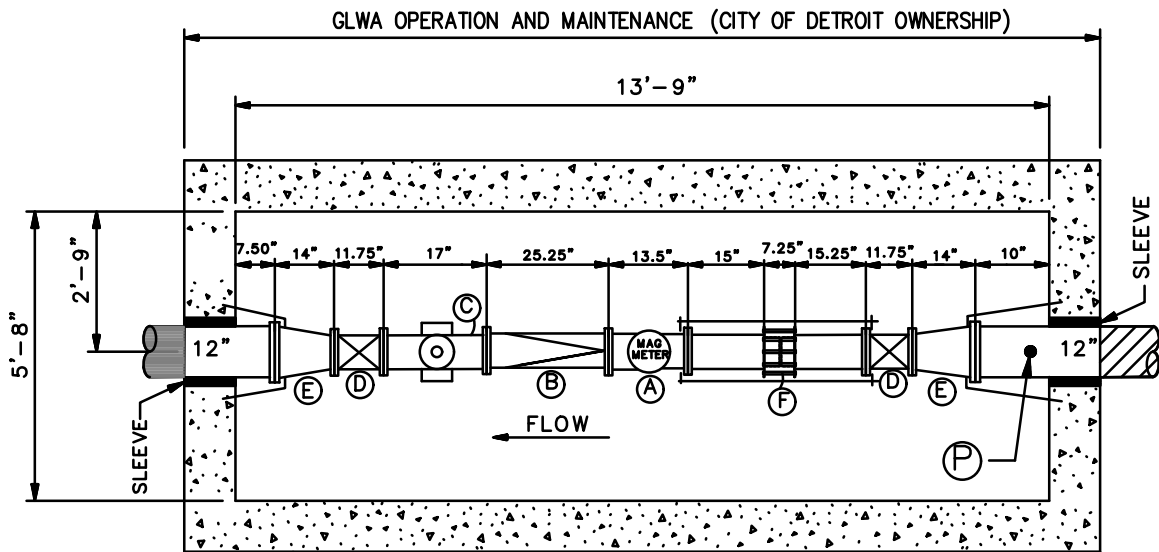
FA-CITY OF FARMINGTON  
OWNERSHIP AND MAINTENANCE  
FT-CITY OF FARMINGTON HILLS  
OWNERSHIP AND MAINTENANCE  
GLWA - GREAT LAKES WATER AUTHORITY  
OPERATION AND MAINTENANCE  
(CITY OF DETROIT OWNERSHIP)

LOCATIONS SUBJECT  
TO VERIFICATION IN  
THE FIELD.

FA  
02



# EXHIBIT-A FA-02 GRAND RIVER AND DRAKE CITY OF FARMINGTON



12" THICK WALLS

## METER PIT DETAIL

NOT TO SCALE

- CITY OF FARMINGTON O&M
- OWNERSHIP, OPERATION, AND MAINTENANCE IS NOT GLWA'S.

LEGEND			
TAG	QTY	DESCRIPTION	SIZE
A	1	ABB MAG METER	8"
B	1	CHECK VALVE	8"
C	1	STEEL TEST TEE	8"x8"x3"
D	2	GATE VALVE (CCW TO OPEN)	8"
E	2	REDUCER	12"x8"
F	1	MECHANICAL COUPLING	8"

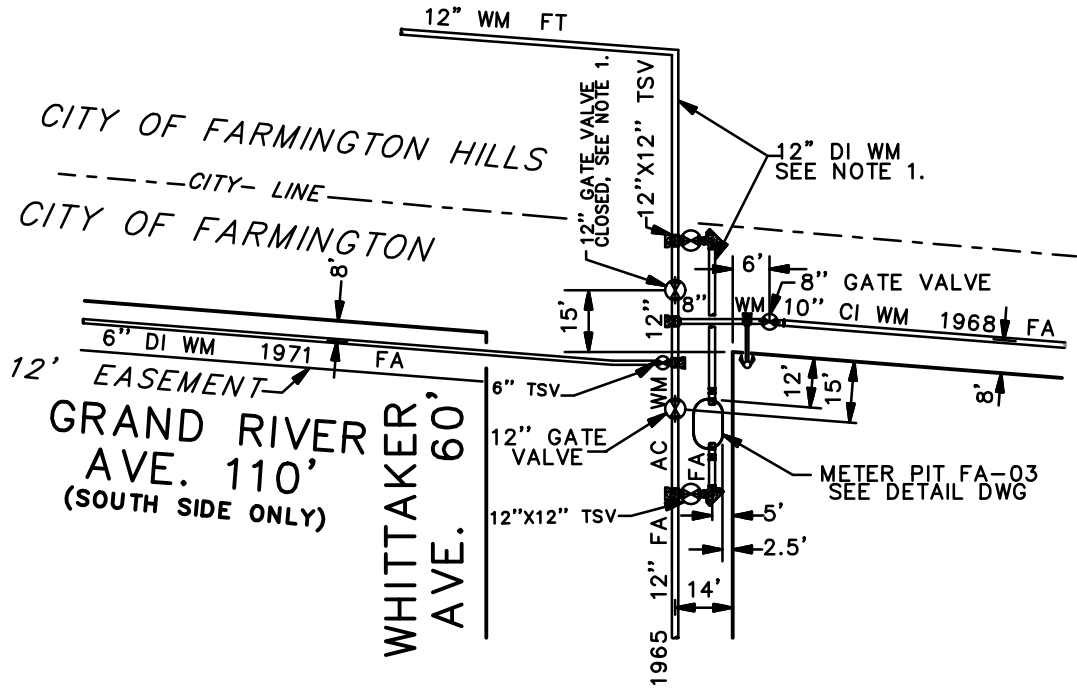
TYPICAL PRESSURE LOSS THRU METER	
METER TYPE	P.S.I. LOSS
VENTURI	1 TO 2
MAG	0
TURBINE	4 - 6

Ⓟ UPSTREAM PRESSURE TRANSMITTER,  
G.L.W.A. OPERATION & MAINTENANCE  
(CITY OF DETROIT OWNERSHIP)

ADDRESS \_\_\_\_\_ 35365 GRAND RIVER  
 FEED TO \_\_\_\_\_ CITY OF FARMINGTON  
 FEED FROM \_\_\_\_\_ 12" CITY OF FARMINGTON HILLS  
 TRANS. MAIN, DEDUCT.  
 TYPE OF METER \_\_\_\_\_ ABB MAG METER  
 SIZE OF METER \_\_\_\_\_ 8"  
 METER NUMBER \_\_\_\_\_ 0018964  
 DATE METER SET \_\_\_\_\_ 17 JUNE 2010  
 METER PIT CONST & SIZE \_\_\_\_\_ 13'-9" x 5'-8" I.D. REINF. CONCRETE  
 GATE BOOK \_\_\_\_\_ NONE  
 FIELD BOOK \_\_\_\_\_  
 REMARKS \_\_\_\_\_

FA  
02

EXHIBIT-A  
 FA-03  
 WHITTAKER SOUTH OF GRAND RIVER  
 CITY OF FARMINGTON



SITE PLAN  
 NOT TO SCALE



NOTE:  
 1. OWNERSHIP, OPERATION, AND  
 MAINTENANCE IS NOT GLWA'S.

FA-CITY OF FARMINGTON  
 OWNERSHIP AND MAINTENANCE

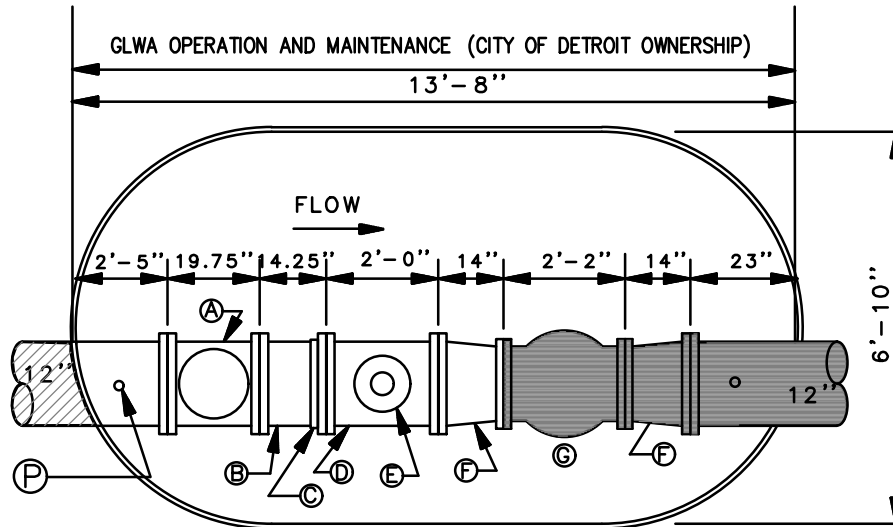
FT-CITY OF FARMINGTON HILLS  
 OWNERSHIP AND MAINTENANCE

GLWA - GREAT LAKES WATER AUTHORITY  
 OPERATION AND MAINTENANCE  
 (CITY OF DETROIT OWNERSHIP)

LOCATIONS SUBJECT  
 TO VERIFICATION IN  
 THE FIELD.



# EXHIBIT-A FA-03 WHITTAKER SOUTH OF GRAND RIVER CITY OF FARMINGTON



**METER PIT DETAIL**  
NOT TO SCALE

OWNERSHIP, OPERATION, AND MAINTENANCE IS NOT GLWA'S.  
 CITY OF FARMINGTON O&M

LEGEND			
TAG	QTY.	DESCRIPTION	SIZE
A	1	FLCD MAGNETIC FLOW METER	12"
B	1	2.25" F-PE PIPE DI	12"
C	1	'MEGALUG' FLANGE ADAPTER	12"
D	1	FLGD. TEST TEE D.I. C-F	12"X4"
E	1	TEST TEE ASSEMBLY w/3"x9" OD COMPANION FLG	-
F	2	FLED. ECCENTRIC REDUCERS D.I 14" F-F	12"X10"
G	1	PRV (NO INFORMATION)	-

TYPICAL PRESSURE LOSS THRU METER	
METER TYPE	P.S.I. LOSS
VENTURI	1 TO 2
MAG	0
TURBINE	4 - 6

NOTE: GLWA IS RESPONSIBLE FOR MAINTENANCE OF METER PIT VAULT STRUCTURE INCLUDING LIGHTING AND INSTRUMENTATION.

NOTE: FARMINGTON WILL CONTINUE TO MAINTAIN SUMP PUMP

Ⓟ-UPSTREAM PRESSURE TRANSMITTER,  
G.L.W.A. OPERATION & MAINTENANCE  
(CITY OF DETROIT OWNERSHIP)

ADDRESS ----- NO ADDRESS  
 FEED TO ----- CITY OF FARMINGTON  
 FEED FROM ----- 12" CITY OF FARMINGTON HILLS, DEDUCT.  
 TYPE OF METER ----- ABB MAG  
 SIZE OF METER ----- 12"  
 METER NUMBER ----- V/34928/1/1  
 TYPE OF PRV -----  
 SIZE OF PRV -----  
 METER SET DATE ----- JUNE 12 2008  
 METER PIT CONST & SIZE ----- 13'-8" X 6'-10" STEEL VAULT  
 GATE BOOK ----- NONE  
 FIELD BOOK -----  
 REMARKS -----

FA  
03

## EXHIBIT B

Projected Annual Volume and Minimum Annual Volume (Table 1)  
Pressure Range and Maximum Flow Rate (Table 2)  
Flow Split Assumptions (Table 3)  
Addresses for Notice (Table 4)

Table 1 and Table 2 set forth the agreed upon Projected Annual Volumes, Minimum Annual Volumes, Pressure Ranges and Maximum Flow Rates for the term of this Contract provided that figures in bold type face are immediately enforceable pursuant to the terms of Section 5.07 and italicized figures are contained for planning purposes only but will become effective absent the negotiated replacements anticipated in Section 5.07.

The approximate rate of flow by individual meter set forth in Table 3 is the assumption upon which the Pressure Range commitments established in Table 2 have been devised. Should Customer deviate from these assumptions at any meter(s), the Board may be unable to meet the stated Pressure Range commitments in this Contract or in the contract of another customer of the Board and Section 5.08 of this Contract may be invoked.

EXHIBIT B

Table 1  
 Projected Annual Volume and Minimum Annual Volume

Fiscal Year Ending June 30	Projected Annual Volume (Mcf)	Minimum Annual Volume (Mcf)
2009	<b>65,000</b>	<b>32,500</b>
2010	<b>65,000</b>	<b>32,500</b>
2011	<b>53,700</b>	<b>26,850</b>
2012	<b>53,700</b>	<b>26,850</b>
2013	<b>53,700</b>	<b>26,850</b>
2014	<b>53,700</b>	<b>26,850</b>
2015	<b>55,000</b>	<b>27,500</b>
2016	<b>55,000</b>	<b>27,500</b>
2017	<b>55,000</b>	<b>27,500</b>
2018	<b>55,000</b>	<b>27,500</b>
2019	<b>55,000</b>	<b>27,500</b>
2020	<b>49,000</b>	<b>24,500</b>
2021	<b>49,000</b>	<b>24,500</b>
2022	<b>49,000</b>	<b>24,500</b>
2023	<b>49,000</b>	<b>24,500</b>
2024	<i>49,000</i>	<i>24,500</i>
2025	<i>49,000</i>	<i>24,500</i>
2026	<i>49,000</i>	<i>24,500</i>
2027	<i>49,000</i>	<i>24,500</i>
2028	<i>49,000</i>	<i>24,500</i>
2029	<i>49,000</i>	<i>24,500</i>
2030	<i>49,000</i>	<i>24,500</i>
2031	<i>49,000</i>	<i>24,500</i>
2032	<i>49,000</i>	<i>24,500</i>
2033	<i>49,000</i>	<i>24,500</i>
2034	<i>49,000</i>	<i>24,500</i>
2035	<i>49,000</i>	<i>24,500</i>
2036	<i>49,000</i>	<i>24,500</i>
2037	<i>49,000</i>	<i>24,500</i>
2038	<i>49,000</i>	<i>24,500</i>
2039	<i>49,000</i>	<i>24,500</i>

EXHIBIT B

Table 2  
Pressure Range and Maximum Flow Rate

Calendar Year (Reopener Schedule in bold type)	Pressure Range (psi) Meter FA-01		Pressure Range (psi) Meter FA-02 (deduct)		Pressure Range (psi) Meter FA-03 (deduct)		Maximum Flow Rate (mgd)	
	<u>Min</u>	<u>Max</u>	<u>Min</u>	<u>Max</u>	<u>Min</u>	<u>Max</u>	<u>Max Day</u>	<u>Peak Hour</u>
	2009	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.63</b>
2010	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.60</b>	<b>3.50</b>
2011	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2012	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2013	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2014	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2015	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2016	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2017	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
<b>2018</b>	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2019	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2020	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2021	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
<b>2022</b>	<b>48</b>	<b>73</b>	NA	NA	NA	NA	<b>2.25</b>	<b>2.45</b>
2023	48	73	NA	NA	NA	NA	2.25	2.45
2024	48	73	NA	NA	NA	NA	2.25	2.45
2025	48	73	NA	NA	NA	NA	2.25	2.45
<b>2026</b>	48	73	NA	NA	NA	NA	2.25	2.45
2027	48	73	NA	NA	NA	NA	2.25	2.45
2028	48	73	NA	NA	NA	NA	2.25	2.45
2029	48	73	NA	NA	NA	NA	2.25	2.45
<b>2030</b>	48	73	NA	NA	NA	NA	2.25	2.45
2031	48	73	NA	NA	NA	NA	2.25	2.45
2032	48	73	NA	NA	NA	NA	2.25	2.45
2033	48	73	NA	NA	NA	NA	2.25	2.45
<b>2034</b>	48	73	NA	NA	NA	NA	2.25	2.45
2035	48	73	NA	NA	NA	NA	2.25	2.45
2036	48	73	NA	NA	NA	NA	2.25	2.45
2037	48	73	NA	NA	NA	NA	2.25	2.45
<b>2038</b>	48	73	NA	NA	NA	NA	2.25	2.45

EXHIBIT B

Table 3  
Flow Split Assumptions

<b>Meter</b>	<b>Assumed Flow Split (2019-2022)</b>
FA-01	50 – 70 %
FA-02	25 – 60 %
FA-03	10 – 40 %

Table 4  
Addresses for Notice

<p><b>If to the Board:</b></p> <p>General Counsel Great Lakes Water Authority 735 Randolph, Suite 1901 Detroit, Michigan 48226</p>	<p><b>If to Customer:</b></p> <p>City Manager City of Farmington 23600 Liberty Street, PO Box 9002 Farmington, Michigan 48335</p> <p>Cc: Director of Finance &amp; Administration</p> <p>Superintendent of Public Works 33720 West Nine Mile Road Farmington, Michigan 48335</p>
--	--

## **GRANT OF PERMANENT WATER MAIN EASEMENT**

1. **PARCEL NUMBER:** 21-25-400-011
  
2. **PARTIES:** This is a Grant of Easement to the Charter Township of Lyon, its agents, assigns, successors or administrators, whose address is 58000 Grand River, New Hudson, Michigan 48165, hereafter referred to as **Grantee**.  
  
**FROM:** Rex F. Balko and Claudia S. Balko, Husband and Wife, and Anthony F. Kruszewski and Sandra L. Kruszewski, Husband and wife, hereinafter referred to as **Grantor**.
  
3. **GRANTOR'S ADDRESS:** Vacant, Northville, MI 48167
  
4. **PURPOSE:** The purpose of this grant and conveyance is to provide the Grantee with an easement to permit construction, installation, operation, maintenance, replacement and removal of water main lines and related appurtenances, as well as other municipal public services, and to provide the Grantee with access to the burdened property described herein for the limited purpose of constructing installing, operating, maintaining, replacing or removal of the sanitary sewer lines and related appurtenances or other municipal public services.
  
5. **GRANT OF PERMANENT EASEMENT:** Grantor hereby grants and conveys to Grantee an easement for the purpose described in Paragraph 4 above. Additionally, the Grantor hereby grants and conveys to Grantee the right to enter upon the property described in Paragraph 6 below for the purpose of access to the easement conveyed herein. The Grantor herewith agrees not to build or convey to others permission to build any permanent structures within the described permanent easement.
  
6. **BURDENED PROPERTY:** The property to be burdened by the easement granted and conveyed is described on attached Exhibit "A".
  
7. **DESCRIPTION OF EASEMENT:** The easement granted and conveyed to Grantee is described on attached Exhibit "A".
  
8. **CONSIDERATION:** Grantor hereby acknowledges receipt of the sum of \$1.00 (One) Dollar for this grant and conveyance of this easement.
  
9. **RESTORATION OF PROPERTY:** Any portion of the property described in Paragraph 6 which is damaged by the Grantees exercise of the easement granted shall be reasonably repaired by Grantee.
  
10. **DATE OF GRANT AND CONVEYANCE:** \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_. This instrument shall be binding upon and inure to the benefit of the parties hereto, their heirs, representatives, successors, and assigns.

GRANTORS:



\_\_\_\_\_  
Rex F. Balko

\_\_\_\_\_  
Claudia S. Balko

\_\_\_\_\_  
Anthony F. Kruszewski

\_\_\_\_\_  
Sandra L. Kruszewski

STATE OF MICHIGAN     )  
                                      )SS.  
COUNTY OF OAKLAND    )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by Rex F. Balko and Claudia S. Balko, husband and wife and Anthony F. Kruszewski and Sandra L. Kruszewski, Husband and wife.

\_\_\_\_\_  
  ), Notary Public  
\_\_\_\_\_ County, Michigan  
My commission expires: \_\_\_\_\_  
(acting in \_\_\_\_\_ County)

Drafted by/return to: Leslie Zawada, P.E.  
Civil Engineering Solutions, Inc.  
1150 Corporate Office Drive, Suite 210  
Milford, MI 48381

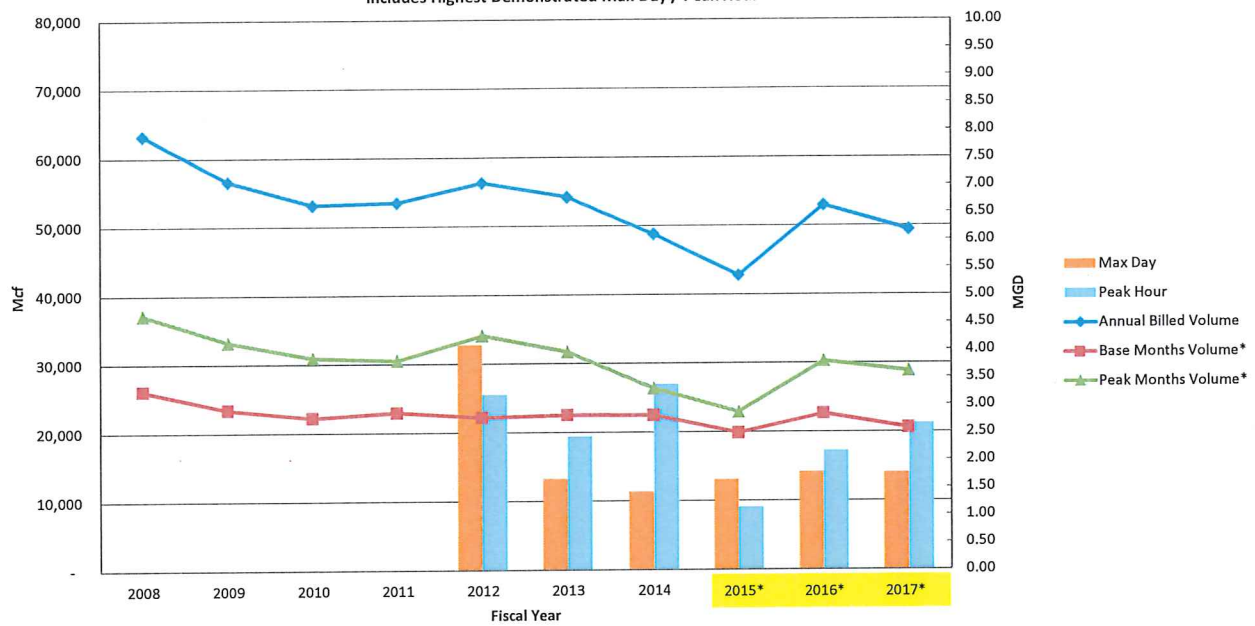


735 Randolph Street  
Detroit, MI 48226  
[WWW.GLWATER.ORG](http://WWW.GLWATER.ORG)

## City of Farmington Contract Reopener Data

## City of Farmington Annual Billed Volume

Includes Highest Demonstrated Max Day / Peak Hour



\* Highlighted area represents the 3-year historical period for the proposed FY 2019 volume projection.

\* Proposed volume projection is based on the Adjusted Year volumes for October 1, 2014 to September 30, 2017 applied as follows:

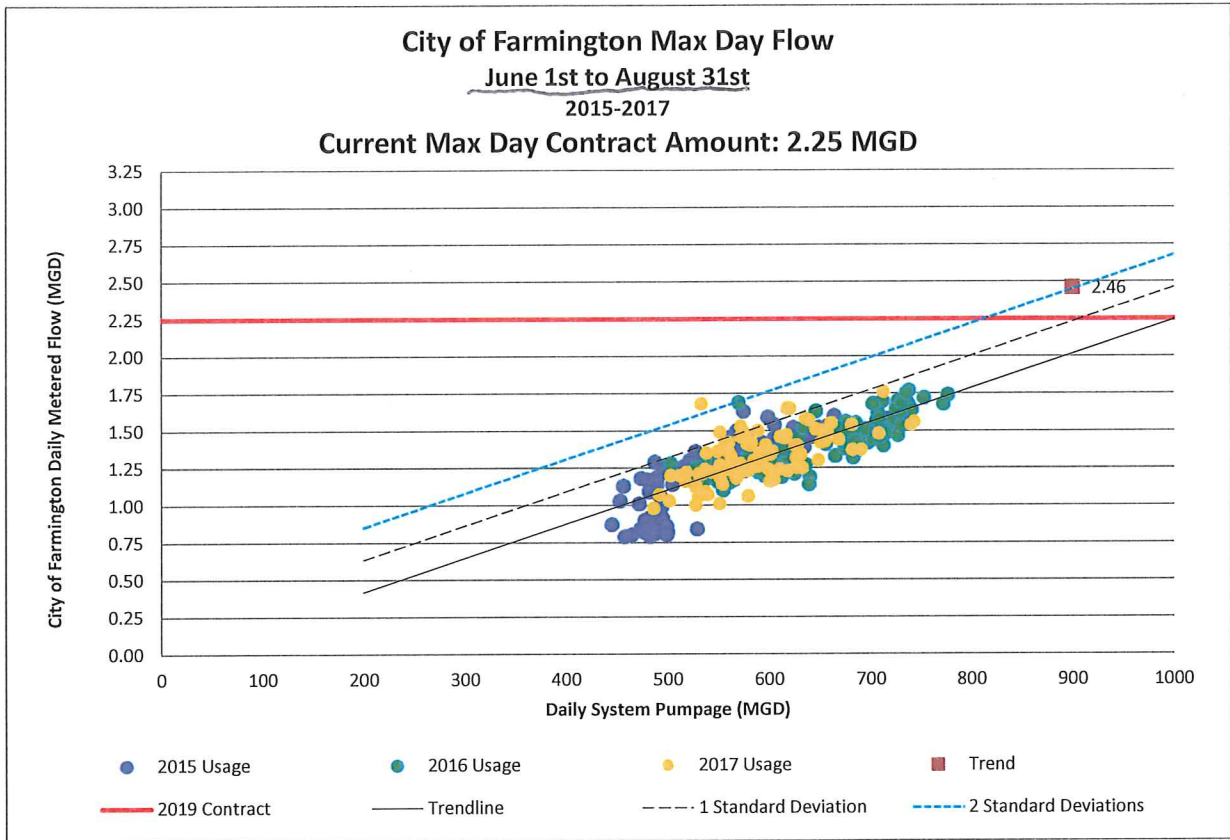
- (1) Average of peak months (April to September), plus
- (2) Average of the base months (October to March), less 5%

## City of Farmington Annual Volumes

Fiscal Year Ending	Contract Volume	Charge Volume	Annual Billed Volume	Base Months Volume*	Peak Months Volume*
2005	-	-	65,750	27,770	37,980
2006	-	-	65,924	27,759	38,164
2007	-	-	61,242	23,809	37,433
2008	-	-	63,248	26,105	37,142
2009	65,000		56,618	23,397	33,221
2010	65,000		53,155	22,197	30,958
2011	53,700		53,497	22,953	30,544
2012	53,700		56,329	22,214	34,115
2013	53,700		54,212	22,514	31,698
2014	53,700	-	48,803	22,459	26,344
2015	55,000	-	42,777	19,872	22,905
2016	55,000	49,000	52,956	22,664	30,292
2017	55,000	47,000	49,429	20,590	28,839
2018	55,000	47,400			
2019	55,000	48,300			
2020					

\*Base Months are October 1 to March 31, Peak Months are April 1 to September 30

**City of Farmington Max Day Flow**  
June 1st to August 31st  
 2015-2017  
**Current Max Day Contract Amount: 2.25 MGD**



\* The value of 2.46 MGD represents a hypothetical estimate for a City of Farmington Max Day at a System flow of 900 MGD- based on the 3 year summer Daily Flow plus 2 standard deviations.

**City of Farmington Max Day Data**  
**June 1st to August 31st**  
**Current Max Day Contract Amount: 2.25 MGD**

Date	CUST BILLED	Date	CUST BILLED	Date	CUST BILLED
6/1/2015	0.80	6/1/2016	1.19	6/1/2017	0.98
6/2/2015	0.79	6/2/2016	1.17	6/2/2017	1.20
6/3/2015	0.83	6/3/2016	1.19	6/3/2017	1.03
6/4/2015	0.86	6/4/2016	1.33	6/4/2017	1.22
6/5/2015	0.86	6/5/2016	1.28	6/5/2017	1.21
6/6/2015	0.92	6/6/2016	1.31	6/6/2017	1.07
6/7/2015	0.94	6/7/2016	1.25	6/7/2017	1.24
6/8/2015	0.87	6/8/2016	1.69	6/8/2017	1.06
6/9/2015	0.90	6/9/2016	1.31	6/9/2017	1.23
6/10/2015	0.92	6/10/2016	1.31	6/10/2017	1.32
6/11/2015	0.90	6/11/2016	1.41	6/11/2017	1.54
6/12/2015	0.81	6/12/2016	1.46	6/12/2017	1.54
6/13/2015	0.87	6/13/2016	1.33	6/13/2017	1.48
6/14/2015	0.84	6/14/2016	1.38	6/14/2017	1.37
6/15/2015	0.84	6/15/2016	1.20	6/15/2017	1.23
6/16/2015	0.82	6/16/2016	1.10	6/16/2017	1.34
6/17/2015	0.82	6/17/2016	1.36	6/17/2017	1.36
6/18/2015	0.82	6/18/2016	1.32	6/18/2017	1.36
6/19/2015	0.83	6/19/2016	1.49	6/19/2017	1.25
6/20/2015	0.84	6/20/2016	1.36	6/20/2017	1.23
6/21/2015	0.91	6/21/2016	1.52	6/21/2017	1.40
6/22/2015	0.86	6/22/2016	1.57	6/22/2017	1.34
6/23/2015	0.79	6/23/2016	1.56	6/23/2017	1.21
6/24/2015	0.80	6/24/2016	1.68	6/24/2017	1.36
6/25/2015	0.99	6/25/2016	1.68	6/25/2017	1.68
6/26/2015	1.06	6/26/2016	1.47	6/26/2017	1.33
6/27/2015	1.01	6/27/2016	1.72	6/27/2017	1.35
6/28/2015	1.03	6/28/2016	1.59	6/28/2017	1.34
6/29/2015	1.09	6/29/2016	1.77	6/29/2017	1.48
6/30/2015	1.10	6/30/2016	1.74	6/30/2017	1.41
7/1/2015	1.14	7/1/2016	1.38	7/1/2017	1.16
7/2/2015	1.18	7/2/2016	1.50	7/2/2017	1.46
7/3/2015	1.16	7/3/2016	1.55	7/3/2017	1.30
7/4/2015	1.17	7/4/2016	1.45	7/4/2017	1.65
7/5/2015	1.25	7/5/2016	1.58	7/5/2017	1.57
7/6/2015	1.30	7/6/2016	1.64	7/6/2017	1.55
7/7/2015	1.13	7/7/2016	1.70	7/7/2017	1.16
7/8/2015	1.12	7/8/2016	1.29	7/8/2017	1.27
7/9/2015	1.13	7/9/2016	1.32	7/9/2017	1.50
7/10/2015	1.17	7/10/2016	1.45	7/10/2017	1.18
7/11/2015	1.29	7/11/2016	1.40	7/11/2017	1.14
7/12/2015	1.26	7/12/2016	1.56	7/12/2017	1.13
7/13/2015	1.26	7/13/2016	1.42	7/13/2017	1.20
7/14/2015	1.20	7/14/2016	1.21	7/14/2017	1.12
7/15/2015	1.14	7/15/2016	1.44	7/15/2017	1.19
7/16/2015	1.27	7/16/2016	1.14	7/16/2017	1.35
7/17/2015	1.19	7/17/2016	1.52	7/17/2017	1.29
7/18/2015	1.30	7/18/2016	1.40	7/18/2017	1.40
7/19/2015	1.25	7/19/2016	1.50	7/19/2017	1.58
7/20/2015	1.33	7/20/2016	1.53	7/20/2017	1.46
7/21/2015	1.38	7/21/2016	1.42	7/21/2017	1.44
7/22/2015	1.33	7/22/2016	1.42	7/22/2017	1.25
7/23/2015	1.50	7/23/2016	1.62	7/23/2017	1.49
7/24/2015	1.52	7/24/2016	1.27	7/24/2017	1.25
7/25/2015	1.46	7/25/2016	1.52	7/25/2017	1.46
7/26/2015	1.42	7/26/2016	1.43	7/26/2017	1.40
7/27/2015	1.58	7/27/2016	1.70	7/27/2017	1.42
7/28/2015	1.57	7/28/2016	1.53	7/28/2017	1.30
7/29/2015	1.39	7/29/2016	1.50	7/29/2017	1.65
7/30/2015	1.50	7/30/2016	1.37	7/30/2017	1.50
7/31/2015	1.53	7/31/2016	1.25	7/31/2017	1.56
8/1/2015	1.52	8/1/2016	1.63	8/1/2017	1.76
8/2/2015	1.49	8/2/2016	1.52	8/2/2017	1.37
8/3/2015	1.28	8/3/2016	1.62	8/3/2017	1.28
8/4/2015	1.63	8/4/2016	1.44	8/4/2017	1.09
8/5/2015	1.44	8/5/2016	1.51	8/5/2017	1.40
8/6/2015	1.54	8/6/2016	1.58	8/6/2017	1.17
8/7/2015	1.52	8/7/2016	1.68	8/7/2017	1.47
8/8/2015	1.32	8/8/2016	1.65	8/8/2017	1.45
8/9/2015	1.38	8/9/2016	1.69	8/9/2017	1.49
8/10/2015	1.28	8/10/2016	1.75	8/10/2017	1.43
8/11/2015	1.24	8/11/2016	1.48	8/11/2017	1.24
8/12/2015	1.36	8/12/2016	1.46	8/12/2017	1.42
8/13/2015	1.46	8/13/2016	1.34	8/13/2017	1.53
8/14/2015	1.40	8/14/2016	1.28	8/14/2017	1.51
8/15/2015	1.59	8/15/2016	1.29	8/15/2017	1.24
8/16/2015	1.60	8/16/2016	1.17	8/16/2017	1.26
8/17/2015	1.50	8/17/2016	1.20	8/17/2017	1.26
8/18/2015	1.45	8/18/2016	1.15	8/18/2017	1.07
8/19/2015	1.37	8/19/2016	1.22	8/19/2017	1.22
8/20/2015	1.27	8/20/2016	1.19	8/20/2017	1.42
8/21/2015	1.29	8/21/2016	1.16	8/21/2017	1.32
8/22/2015	1.39	8/22/2016	1.30	8/22/2017	1.30
8/23/2015	1.35	8/23/2016	1.25	8/23/2017	1.26
8/24/2015	1.37	8/24/2016	1.22	8/24/2017	1.36
8/25/2015	1.32	8/25/2016	1.14	8/25/2017	1.23
8/26/2015	1.25	8/26/2016	1.25	8/26/2017	1.40
8/27/2015	1.31	8/27/2016	1.17	8/27/2017	1.24
8/28/2015	1.34	8/28/2016	1.17	8/28/2017	1.30
8/29/2015	1.36	8/29/2016	1.23	8/29/2017	1.00
8/30/2015	1.30	8/30/2016	1.17	8/30/2017	1.06
8/31/2015	1.46	8/31/2016	1.15	8/31/2017	1.01

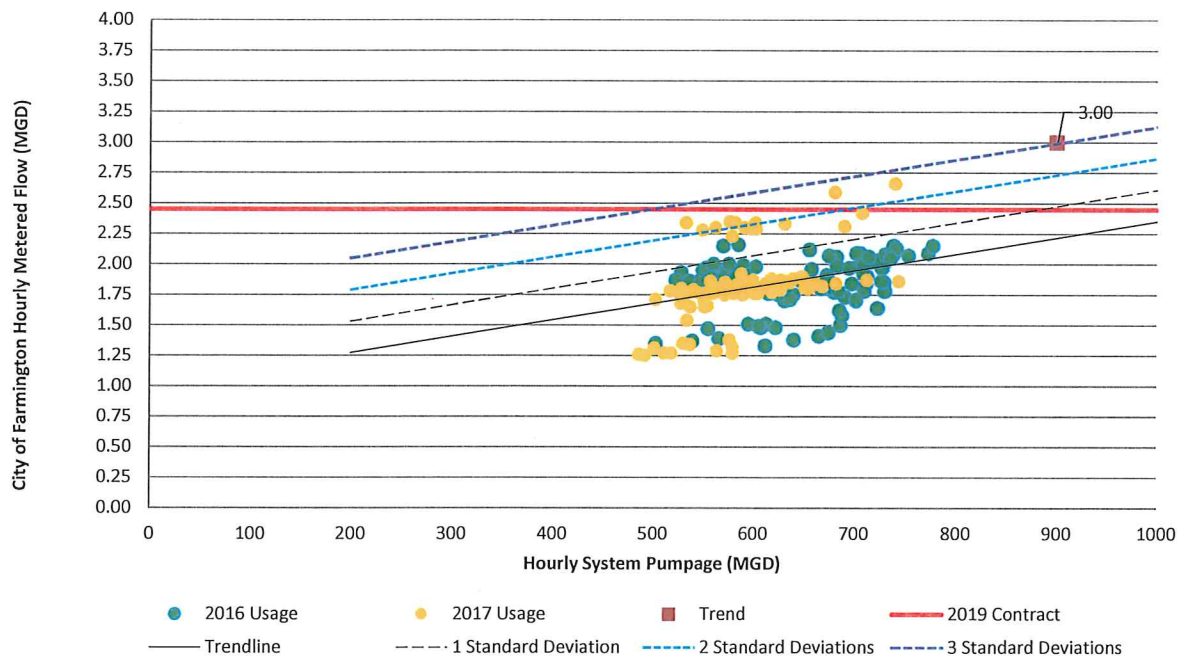
1.77  
+ 10%  


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1.95 GLWA  
Recommended

Highest Demonstrated Max Day: 1.63 1.77 1.76  
 = System Max Day  
 = City of Farmington Max Day

**City of Farmington Peak Hour Flow**  
**June 1 to August 31 (5:00 AM EST to 11:00 PM EST)**  
**2016-2017**  
**Current Peak Hour Contract Amount: 2.45 MGD**



\* The value of 3.00 MGD represents a hypothetical estimate for a City of Farmington Peak Hour at a System flow of 900 MGD- based on the 2 year summer Max Hourly Flow plus 3 standard deviations.



Farmington City Peak Hour Data

June 1st to August 31st (5:00 AM EST to 11:00 PM EST)
Current Peak Hour Contract Amount: 2.45 MGD

Table with columns: Date, System Pumpage, Peak Hour, Notes. Contains hourly data from 6/1/2015 to 8/31/2015 and 6/1/2016 to 8/31/2017.

Handwritten note: West Service Center Outage 6/11/17

Handwritten note: 9-10 AM EST 6-7 AM EST

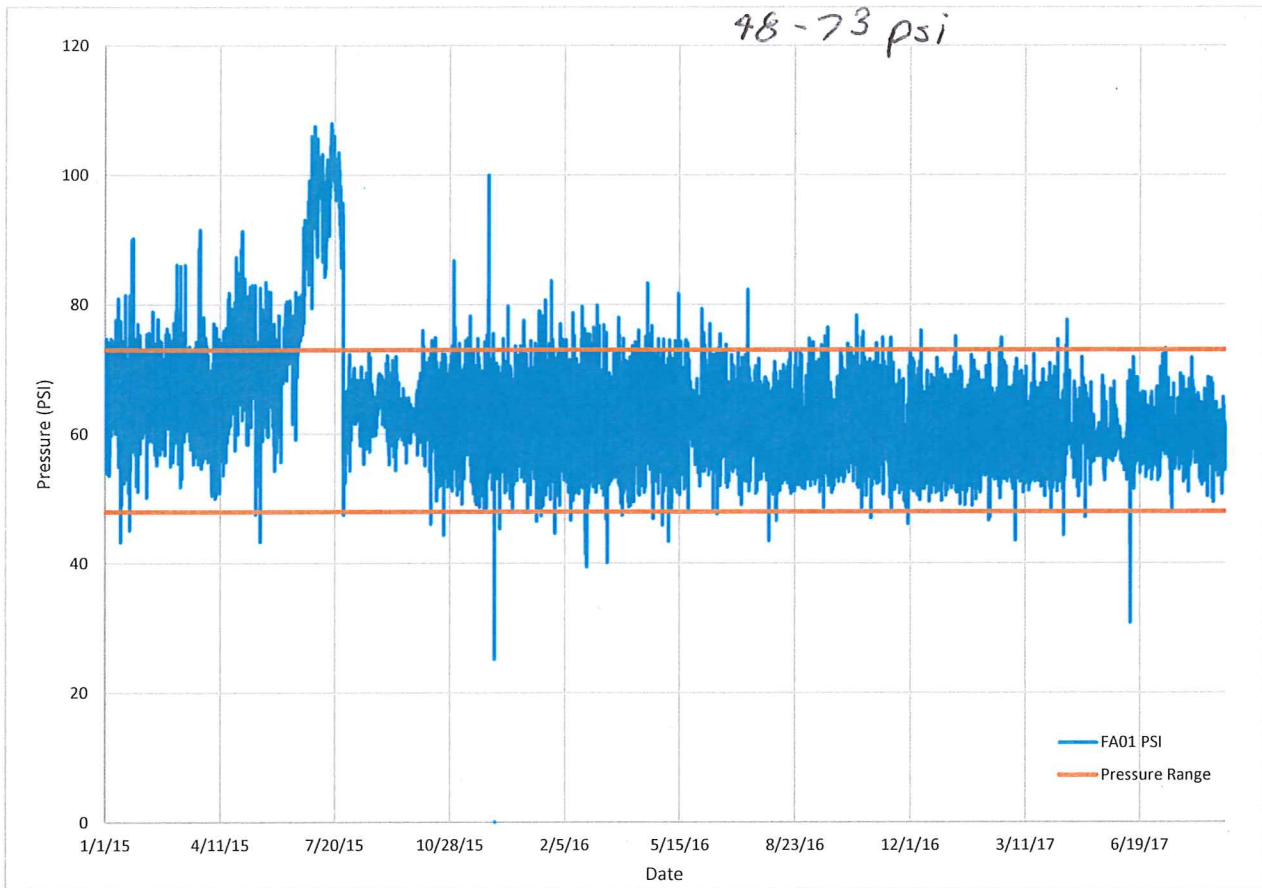
Highest Demonstrated Peak Hour: N/A, 2.16, 2.66
Legend: Yellow = System Peak Hour Day, Green = Farmington Peak Hour, Orange = Contract Exceedance, Blue = FA01 Meter Issues



# **GLWA Pressure Compliance Data and Flow Split Assumptions (if applicable)**

### FA01 Pressure

1/1/15 12:00 AM EST - 9/1/17 12:00 AM EST



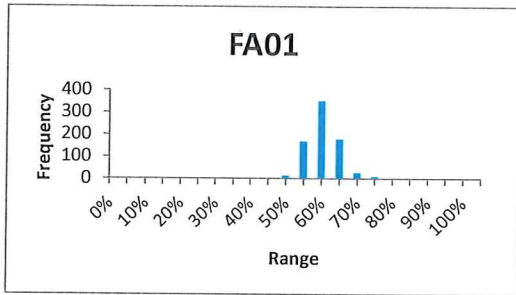
Pressure Compliance: 91.9%

Above limit: 1,854 out of 23,319 data points

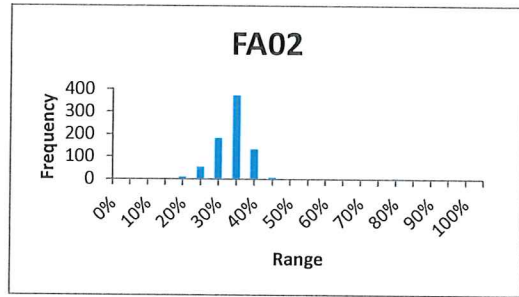
Below limit: 43 out of 23,319 data points

## Farmington Flow Split Assumptions

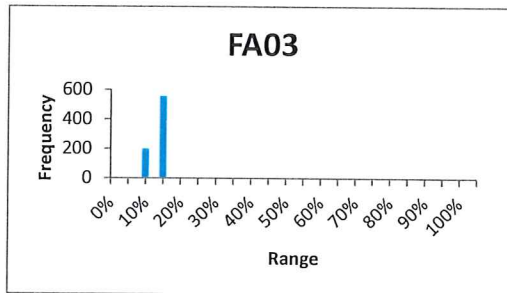
Flow splits calculated from daily data 1/1/15 12:00 AM EST to 9/1/17 12:00 AM EST.



Current contract value: 50-70%  
No proposed changes.



Current contract value: 25-60%  
No proposed changes.



Current contract value: 10-40%  
No proposed changes.

## Farmington City Peak Hour Data

**June 1st to August 31st (5:00 AM EST to 11:00 PM EST)**  
**FY 2019 Peak Hour Contract Amount: 2.45 MGD**

Date	System Pumpage	Peak Hour	Notes	Date	System Pumpage	Peak Hour	Notes	Date	System Pumpage	Peak Hour	Notes
6/1/2015	464.60	0.52		6/1/2016	612.30	1.51		6/1/2017	485.75	1.26	
6/2/2015	457.90	0.51		6/2/2016	565.40	1.39		6/2/2017	510.91	1.27	
6/3/2015	482.50	0.58		6/3/2016	640.00	1.38		6/3/2017	501.13	1.31	
6/4/2015	488.20	0.55		6/4/2016	607.20	1.48		6/4/2017	517.98	1.27	
6/5/2015	495.00	0.63		6/5/2016	502.50	1.35		6/5/2017	530.17	1.35	
6/6/2015	483.00	0.53		6/6/2016	538.90	1.37		6/6/2017	491.68	1.25	
6/7/2015	486.80	0.56		6/7/2016	527.80	1.93		6/7/2017	536.29	1.34	
6/8/2015	487.90	0.56		6/8/2016	569.70	2.15		6/8/2017	579.01	1.27	
6/9/2015	477.40	0.56		6/9/2016	584.70	2.16		6/9/2017	575.77	1.38	
6/10/2015	488.30	0.58		6/10/2016	611.70	1.33		6/10/2017	590.46	1.78	
6/11/2015	485.60	0.59		6/11/2016	655.40	2.12		6/11/2017	680.76	2.59	
6/12/2015	487.50	0.50		6/12/2016	682.20	2.06		6/12/2017	739.56	2.66	Above Contract
6/13/2015	445.30	0.52		6/13/2016	665.00	1.41		6/13/2017	707.56	2.42	
6/14/2015	528.90	0.48		6/14/2016	621.60	1.48		6/14/2017	690.27	2.31	
6/15/2015	473.20	0.51		6/15/2016	594.80	1.51		6/15/2017	579.04	1.32	West Service Center Power Outage
6/16/2015	476.90	0.49		6/16/2016	554.70	1.47		6/16/2017	631.07	2.33	
6/17/2015	499.80	0.53		6/17/2016	605.10	1.49		6/17/2017	602.74	2.29	
6/18/2015	480.30	0.49		6/18/2016	682.60	1.99		6/18/2017	602.13	2.34	
6/19/2015	486.30	0.49		6/19/2016	703.80	1.99		6/19/2017	627.04	1.81	
6/20/2015	476.80	0.51		6/20/2016	686.00	1.50		6/20/2017	563.33	1.29	
6/21/2015	494.80	0.54		6/21/2016	715.50	2.02		6/21/2017	581.52	2.34	
6/22/2015	498.90	0.53		6/22/2016	705.70	2.09		6/22/2017	600.82	2.33	
6/23/2015	482.60	0.49		6/23/2016	675.10	2.07		6/23/2017	533.65	1.54	
6/24/2015	498.90	0.50		6/24/2016	737.20	2.08		6/24/2017	548.88	2.28	
6/25/2015	493.90	0.52		6/25/2016	771.90	2.09		6/25/2017	532.67	2.34	
6/26/2015	492.30	0.74		6/26/2016	726.70	1.97		6/26/2017	562.19	2.30	
6/27/2015	472.10	0.62		6/27/2016	752.40	2.07		6/27/2017	590.83	2.30	
6/28/2015	453.40	0.61		6/28/2016	728.60	2.01		6/28/2017	597.68	2.29	
6/29/2015	481.70	0.64		6/29/2016	737.60	2.15		6/29/2017	576.24	2.35	
6/30/2015	481.70	0.63		6/30/2016	776.40	2.15		6/30/2017	578.47	2.23	
7/1/2015	489.30	0.70		7/1/2016	674.30	1.44		7/1/2017	517.07	1.78	
7/2/2015	473.60	0.65		7/2/2016	687.70	1.58		7/2/2017	571.36	1.75	
7/3/2015	505.20	0.70		7/3/2016	685.10	1.62		7/3/2017	592.12	1.85	
7/4/2015	479.70	0.71		7/4/2016	701.30	1.70		7/4/2017	617.90	1.77	
7/5/2015	527.00	0.72		7/5/2016	722.50	1.64		7/5/2017	639.17	1.88	
7/6/2015	574.70	0.72		7/6/2016	740.40	2.13		7/6/2017	660.73	1.84	
7/7/2015	486.80	0.73		7/7/2016	711.40	1.84		7/7/2017	600.77	1.76	
7/8/2015	484.70	0.71		7/8/2016	630.70	1.70		7/8/2017	551.39	1.68	
7/9/2015	456.70	0.63		7/9/2016	617.20	1.80		7/9/2017	588.93	1.80	
7/10/2015	485.80	0.69		7/10/2016	628.80	1.77		7/10/2017	567.40	1.81	
7/11/2015	487.20	0.68		7/11/2016	712.30	1.90		7/11/2017	553.88	1.66	
7/12/2015	496.60	0.63		7/12/2016	708.80	1.92		7/12/2017	527.88	1.68	
7/13/2015	515.10	0.71		7/13/2016	672.70	1.91		7/13/2017	502.52	1.71	
7/14/2015	505.90	0.67		7/14/2016	624.90	1.75		7/14/2017	527.92	1.80	
7/15/2015	504.50	0.72		7/15/2016	672.80	1.89		7/15/2017	551.17	1.70	
7/16/2015	519.70	0.72		7/16/2016	639.40	1.75		7/16/2017	537.74	1.77	
7/17/2015	489.70	0.68		7/17/2016	633.90	1.82		7/17/2017	592.69	1.80	
7/18/2015	521.30	0.79		7/18/2016	679.90	1.77		7/18/2017	625.09	1.83	
7/19/2015	524.60	0.70		7/19/2016	674.10	1.80		7/19/2017	635.85	1.85	
7/20/2015	564.30	0.75		7/20/2016	729.10	1.78		7/20/2017	612.09	1.84	
7/21/2015	584.00	0.78		7/21/2016	697.20	1.84		7/21/2017	667.96	1.82	
7/22/2015	583.00	0.75		7/22/2016	690.80	1.73		7/22/2017	580.16	1.76	
7/23/2015	628.00	0.80		7/23/2016	728.60	1.85		7/23/2017	551.29	1.76	
7/24/2015	682.70	0.84		7/24/2016	636.10	1.71		7/24/2017	632.38	1.86	
7/25/2015	642.70	0.86		7/25/2016	666.90	2.21		7/25/2017	610.80	1.81	
7/26/2015	593.10	0.72		7/26/2016	684.20	1.78		7/26/2017	627.47	1.87	
7/27/2015	716.80	0.84		7/27/2016	726.40	1.86		7/27/2017	651.09	1.81	

*Above Contract*  
*West Service Center Power Outage*



## Farmington City Peak Hour Data

**June 1st to August 31st (5:00 AM EST to 11:00 PM EST)**  
**FY 2019 Peak Hour Contract Amount: 2.45 MGD**

Date	System Pumpage	Peak Hour	Notes	Date	System Pumpage	Peak Hour	Notes	Date	System Pumpage	Peak Hour	Notes
7/28/2015	731.80	0.88		7/28/2016	709.50	1.78		7/28/2017	648.38	1.90	
7/29/2015	634.60	0.87		7/29/2016	676.00	1.85		7/29/2017	620.24	1.84	
7/30/2015	567.60	0.74		7/30/2016	614.70	1.76		7/30/2017	651.78	1.84	
7/31/2015	657.00	0.96		7/31/2016	564.70	1.80		7/31/2017	743.01	1.86	
8/1/2015	648.60	0.94		8/1/2016	645.90	1.87		8/1/2017	712.18	1.87	
8/2/2015	639.70	0.88		8/2/2016	657.60	1.96		8/2/2017	681.88	1.84	
8/3/2015	582.30	0.75		8/3/2016	707.00	1.98		8/3/2017	571.28	1.85	
8/4/2015	574.70	1.13		8/4/2016	701.40	1.71		8/4/2017	537.01	1.65	
8/5/2015	605.70	0.96		8/5/2016	694.50	1.97		8/5/2017	555.68	1.77	
8/6/2015	605.20	0.87		8/6/2016	708.40	1.99		8/6/2017	604.45	1.76	
8/7/2015	623.80	0.91		8/7/2016	701.80	2.09		8/7/2017	616.76	1.83	
8/8/2015	561.60	0.72		8/8/2016	724.70	2.04		8/8/2017	614.96	1.81	
8/9/2015	568.10	0.75		8/9/2016	729.90	2.08		8/9/2017	656.52	1.84	
8/10/2015	560.00	0.82		8/10/2016	734.80	2.05		8/10/2017	654.71	1.80	
8/11/2015	533.40	0.74		8/11/2016	714.00	2.06		8/11/2017	610.02	1.82	
8/12/2015	553.50	0.76		8/12/2016	708.70	1.92		8/12/2017	582.45	1.83	
8/13/2015	562.60	0.91		8/13/2016	578.90	1.95		8/13/2017	571.68	1.77	
8/14/2015	617.40	0.84		8/14/2016	566.90	1.90		8/14/2017	645.92	1.89	
8/15/2015	598.90	0.91		8/15/2016	602.10	1.98		8/15/2017	558.27	1.83	
8/16/2015	663.80	0.88		8/16/2016	536.10	1.86		8/16/2017	589.01	1.75	
8/17/2015	637.40	1.01		8/17/2016	558.20	1.95		8/17/2017	556.90	1.86	
8/18/2015	605.10	0.84		8/18/2016	556.80	1.89		8/18/2017	539.53	1.79	
8/19/2015	592.80	0.89		8/19/2016	589.50	1.99		8/19/2017	543.31	1.77	
8/20/2015	532.10	0.72		8/20/2016	547.10	1.87		8/20/2017	559.75	1.76	
8/21/2015	550.80	0.79		8/21/2016	549.10	1.95		8/21/2017	626.50	1.79	
8/22/2015	561.60	0.79		8/22/2016	577.00	1.91		8/22/2017	562.67	1.78	
8/23/2015	566.20	0.84		8/23/2016	572.70	1.97		8/23/2017	587.58	1.92	
8/24/2015	557.80	0.84		8/24/2016	591.40	1.91		8/24/2017	559.26	1.80	
8/25/2015	541.60	0.81		8/25/2016	557.00	1.95		8/25/2017	617.72	1.88	
8/26/2015	537.50	0.79		8/26/2016	581.60	1.89		8/26/2017	596.46	1.78	
8/27/2015	525.30	0.81		8/27/2016	552.80	1.97		8/27/2017	599.44	1.87	
8/28/2015	530.70	0.82		8/28/2016	522.20	1.87		8/28/2017	584.74	1.82	
8/29/2015	527.40	0.74		8/29/2016	575.30	2.00		8/29/2017	527.33	1.74	
8/30/2015	549.00	0.67		8/30/2016	557.50	1.89		8/30/2017	530.29	1.73	
8/31/2015	577.10	0.81		8/31/2016	559.90	2.00		8/31/2017	550.96	1.65	

Highest Demonstrated Peak Hour:

**1.13**

**2.21**

**2.66**

= System Peak Hour Day

= Farmington Peak Hour



## Farmington City Max Day Data

June 1st to August 31st

FY 2019 Max Day Factor: 2.25 MGD

Date	CUST BILLED	Date	CUST BILLED	Date	CUST BILLED
6/1/2015	0.80	6/1/2016	1.19	6/1/2017	0.98
6/2/2015	0.79	6/2/2016	1.17	6/2/2017	1.20
6/3/2015	0.83	6/3/2016	1.19	6/3/2017	1.03
6/4/2015	0.86	6/4/2016	1.33	6/4/2017	1.22
6/5/2015	0.86	6/5/2016	1.28	6/5/2017	1.21
6/6/2015	0.92	6/6/2016	1.31	6/6/2017	1.07
6/7/2015	0.94	6/7/2016	1.25	6/7/2017	1.24
6/8/2015	0.87	6/8/2016	1.69	6/8/2017	1.06
6/9/2015	0.90	6/9/2016	1.31	6/9/2017	1.23
6/10/2015	0.92	6/10/2016	1.31	6/10/2017	1.32
6/11/2015	0.90	6/11/2016	1.41	6/11/2017	1.54
6/12/2015	0.81	6/12/2016	1.46	6/12/2017	1.54
6/13/2015	0.87	6/13/2016	1.33	6/13/2017	1.48
6/14/2015	0.84	6/14/2016	1.38	6/14/2017	1.37
6/15/2015	0.84	6/15/2016	1.20	6/15/2017	1.23
6/16/2015	0.82	6/16/2016	1.10	6/16/2017	1.34
6/17/2015	0.82	6/17/2016	1.36	6/17/2017	1.36
6/18/2015	0.82	6/18/2016	1.32	6/18/2017	1.36
6/19/2015	0.83	6/19/2016	1.49	6/19/2017	1.25
6/20/2015	0.84	6/20/2016	1.36	6/20/2017	1.23
6/21/2015	0.91	6/21/2016	1.52	6/21/2017	1.40
6/22/2015	0.86	6/22/2016	1.57	6/22/2017	1.34
6/23/2015	0.79	6/23/2016	1.56	6/23/2017	1.21
6/24/2015	0.80	6/24/2016	1.68	6/24/2017	1.36
6/25/2015	0.99	6/25/2016	1.68	6/25/2017	1.68
6/26/2015	1.06	6/26/2016	1.47	6/26/2017	1.33
6/27/2015	1.01	<b>6/27/2016</b>	<b>1.72</b>	6/27/2017	1.35
6/28/2015	1.03	6/28/2016	1.59	6/28/2017	1.34
6/29/2015	1.09	<b>6/29/2016</b>	<b>1.77</b>	6/29/2017	1.48
6/30/2015	1.10	6/30/2016	1.74	6/30/2017	1.41
7/1/2015	1.14	7/1/2016	1.38	7/1/2017	1.16
7/2/2015	1.18	7/2/2016	1.50	7/2/2017	1.46
7/3/2015	1.16	7/3/2016	1.55	7/3/2017	1.30
7/4/2015	1.17	7/4/2016	1.45	7/4/2017	1.65
7/5/2015	1.25	7/5/2016	1.58	7/5/2017	1.57
7/6/2015	1.30	7/6/2016	1.64	7/6/2017	1.55
7/7/2015	1.13	7/7/2016	1.70	7/7/2017	1.16
7/8/2015	1.12	7/8/2016	1.29	7/8/2017	1.27
7/9/2015	1.13	7/9/2016	1.32	7/9/2017	1.50
7/10/2015	1.17	7/10/2016	1.45	7/10/2017	1.18
7/11/2015	1.29	7/11/2016	1.40	7/11/2017	1.14
7/12/2015	1.26	7/12/2016	1.56	7/12/2017	1.13
7/13/2015	1.26	7/13/2016	1.42	7/13/2017	1.20
7/14/2015	1.20	7/14/2016	1.21	7/14/2017	1.12
7/15/2015	1.14	7/15/2016	1.44	7/15/2017	1.19
7/16/2015	1.27	7/16/2016	1.14	7/16/2017	1.35
7/17/2015	1.19	7/17/2016	1.52	7/17/2017	1.29
7/18/2015	1.30	7/18/2016	1.40	7/18/2017	1.40
7/19/2015	1.25	7/19/2016	1.50	7/19/2017	1.58
7/20/2015	1.33	7/20/2016	1.53	7/20/2017	1.46
7/21/2015	1.38	7/21/2016	1.42	7/21/2017	1.44
7/22/2015	1.33	7/22/2016	1.42	7/22/2017	1.25
7/23/2015	1.50	7/23/2016	1.62	7/23/2017	1.49
7/24/2015	1.52	7/24/2016	1.27	7/24/2017	1.25
7/25/2015	1.46	7/25/2016	1.52	7/25/2017	1.46
7/26/2015	1.42	7/26/2016	1.43	7/26/2017	1.40
<b>7/27/2015</b>	<b>1.58</b>	7/27/2016	1.70	7/27/2017	1.42

## Farmington City Max Day Data

**June 1st to August 31st**  
**FY 2019 Max Day Factor: 2.25 MGD**

Date	CUST BILLED	Date	CUST BILLED	Date	CUST BILLED
7/28/2015	1.57	7/28/2016	1.53	7/28/2017	1.30
7/29/2015	1.39	7/29/2016	1.50	7/29/2017	1.65
7/30/2015	1.50	7/30/2016	1.37	7/30/2017	1.50
7/31/2015	1.53	7/31/2016	1.25	7/31/2017	1.56
8/1/2015	1.52	8/1/2016	1.63	8/1/2017	1.76
8/2/2015	1.49	8/2/2016	1.52	8/2/2017	1.37
8/3/2015	1.28	8/3/2016	1.62	8/3/2017	1.28
8/4/2015	1.63	8/4/2016	1.44	8/4/2017	1.09
8/5/2015	1.44	8/5/2016	1.51	8/5/2017	1.40
8/6/2015	1.54	8/6/2016	1.58	8/6/2017	1.17
8/7/2015	1.52	8/7/2016	1.68	8/7/2017	1.47
8/8/2015	1.32	8/8/2016	1.65	8/8/2017	1.45
8/9/2015	1.38	8/9/2016	1.69	8/9/2017	1.49
8/10/2015	1.28	8/10/2016	1.75	8/10/2017	1.43
8/11/2015	1.24	8/11/2016	1.48	8/11/2017	1.24
8/12/2015	1.36	8/12/2016	1.46	8/12/2017	1.42
8/13/2015	1.46	8/13/2016	1.34	8/13/2017	1.53
8/14/2015	1.40	8/14/2016	1.28	8/14/2017	1.51
8/15/2015	1.59	8/15/2016	1.29	8/15/2017	1.24
8/16/2015	1.60	8/16/2016	1.17	8/16/2017	1.26
8/17/2015	1.50	8/17/2016	1.20	8/17/2017	1.26
8/18/2015	1.45	8/18/2016	1.15	8/18/2017	1.07
8/19/2015	1.37	8/19/2016	1.22	8/19/2017	1.22
8/20/2015	1.27	8/20/2016	1.19	8/20/2017	1.42
8/21/2015	1.29	8/21/2016	1.16	8/21/2017	1.32
8/22/2015	1.39	8/22/2016	1.30	8/22/2017	1.30
8/23/2015	1.35	8/23/2016	1.25	8/23/2017	1.26
8/24/2015	1.37	8/24/2016	1.22	8/24/2017	1.36
8/25/2015	1.32	8/25/2016	1.14	8/25/2017	1.23
8/26/2015	1.25	8/26/2016	1.25	8/26/2017	1.40
8/27/2015	1.31	8/27/2016	1.17	8/27/2017	1.24
8/28/2015	1.34	8/28/2016	1.17	8/28/2017	1.30
8/29/2015	1.36	8/29/2016	1.23	8/29/2017	1.00
8/30/2015	1.30	8/30/2016	1.17	8/30/2017	1.06
8/31/2015	1.46	8/31/2016	1.15	8/31/2017	1.01

Highest Demonstrated Max Day:                      1.63                      1.77                      1.76

= System Max Day

= Farmington Max Day



**Office of the Chief Executive**  
735 Randolph Street, Suite 1900  
Detroit, Michigan 48226

October 2, 2017

City of Farmington  
Superintendent of Public Works  
33720 W. Nine Mile Rd.  
Farmington, MI 48335

Dear Valued Water Customer:

Consistent with our commitment made to you in our water service contract (Section 5.03A), we are pleased to advise you that staff has concluded its review of the June 1 through August 31, 2017 water pumpage, reservoir level and flow data. Our review has determined that the 2017 calendar year Great Lakes Water Authority (GLWA) maximum day is **July 31** and the GLWA peak hour on that day is **5:00 a.m. Eastern Standard Time**.

GLWA is providing notice to all wholesale customers that our data indicates the following customers exceeded their contractual Maximum Flow Rate for calendar year 2017:

Customer	Contract Maximum Flow Rate		July 31, 2017 Flow Rate	
	Max Day (mgd)	Peak Hour (mgd)	Max Day (mgd)	Peak Hour (mgd)
Ferndale	Did not exceed	3.10	Did not exceed	3.11
Harrison Township	Did not exceed	4.20	Did not exceed	4.46
Hazel Park	1.70	Did not exceed	1.72	Did not exceed
Roseville	6.70	Did not exceed	6.74	Did not exceed

The customers above are encouraged to contact Teresa Newman, GLWA facilitator, at 248-476-7577 to schedule a meeting date before November 1, 2017, to review the data, review and analyze the causes and, if necessary, negotiate a possible remedy.

The Maximum Flow Rate exceedances listed above will be discussed at a meeting of the Analytical Work Group to be held on **November 1, 2017 at 9:00 a.m.** at the Lathrup Village Community Center, 27400 Southfield Road, Lathrup Village, MI 48076. Any recommendations resulting from the Analytical Work Group deliberations on the exceedances will be made to GLWA on or before December 1, 2017.



The customers above, and other customers with an interest in these matters, are encouraged to attend the November 1st Analytical Work Group meeting and present any information related to the exceedances deemed necessary to the work group deliberations.

As always, we thank you for the privilege of providing you with high quality water services. Should you have any questions regarding the matters discussed in this letter, please contact Jon Wheatley, Public Finance Manager, at 313-224-4771.

Sincerely,



Sue F. McCormick  
Chief Executive Officer