

City Manager's Office
 Status and Information
 September 9, 2016



*** *Of Note* ***



2016 Downtown Wine Walk
 Thursday, September 15th

This event is always a sell-out, so it's suggested you get your \$30 ticket and souvenir wine glass at any of the participating businesses beforehand. Call 893-8573 for more details.

Community Development

Building Code Enforcement and Rental Housing

Nuisance Enforcement - Grass season was in full swing this summer and our weed enforcement officer has been very busy keeping up with the long grass issues throughout the city. From June 1st through August 31st, the weed enforcement officer opened 434 cases of long weeds and/or grass.

Nuisance enforcement cases from June 1st through August 31st were as follows:

Type of Nuisance	Number of Cases
Accessory Structures (Disrepair and/or Noncompliant)	2
Animal (Too Many Dogs, Unregistered Chickens)	5
Commercial Vehicles In Residential Districts	1
Disabled Motor Vehicles	17
Fence (Disrepair, No Permit)	7
Garage Sale (Continuous)	1
Home Occupation	4
Miscellaneous	4
Nuisance/Blight (Vehicles, Debris, Animal Feces, Etc.)	65
Property Maintenance (Exterior of Structure and/or Home)	51
Recreation Vehicles and/or Trailers	4
Garbage Out Early, Left at Curb	5
Rental – Unregistered Rental	75

Residential Parking (Parking on Grass)	8
Sidewalk Hazard	3
Sidewalk Obstructions (Brushes Overgrown Over Sidewalk)	4
Signage (Permanent)	2
Temporary Sign (No Permit)	2
Yard Waste/Brush	3
Zoning Regulations	6
Total	269

Rental Housing - Staff continues to work on identifying unregistered rentals with the assistance of the Assessing, Water and Utility Customer Service Departments. To date for 2016, we have added 98 new rental properties.

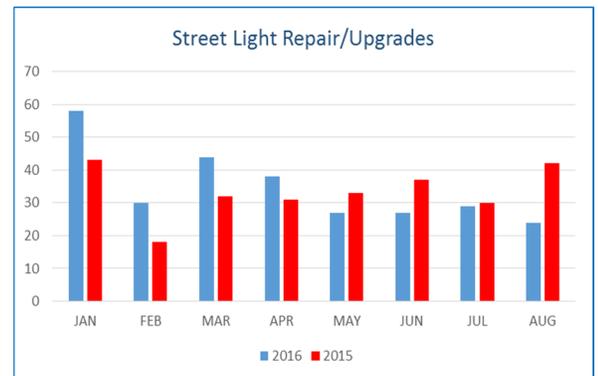
Building – Building permits issued from June 1st through August 31st were as follows:

Type of Building Permit	Number of Permits Issued
Commercial	14
Deck/Porch	16
Garage – Detached	1
Handicap Ramp	6
Pole Barn	1
Pool	3
Residential Additions/Alterations	33
Roofs	76

Electric Department

Street Light Statistics

This year, 277 street lights have been repaired/upgraded versus 266 in 2015 same month comparison. Requests for street light replacements historically increase beginning in October when the amount of daylight decreases. The Electric Department is on pace to repair/upgrade in excess of 500 street lights in 2016. BCEL P has also completed major street light upgrades and new installations on Madison Avenue and Washington Avenue.

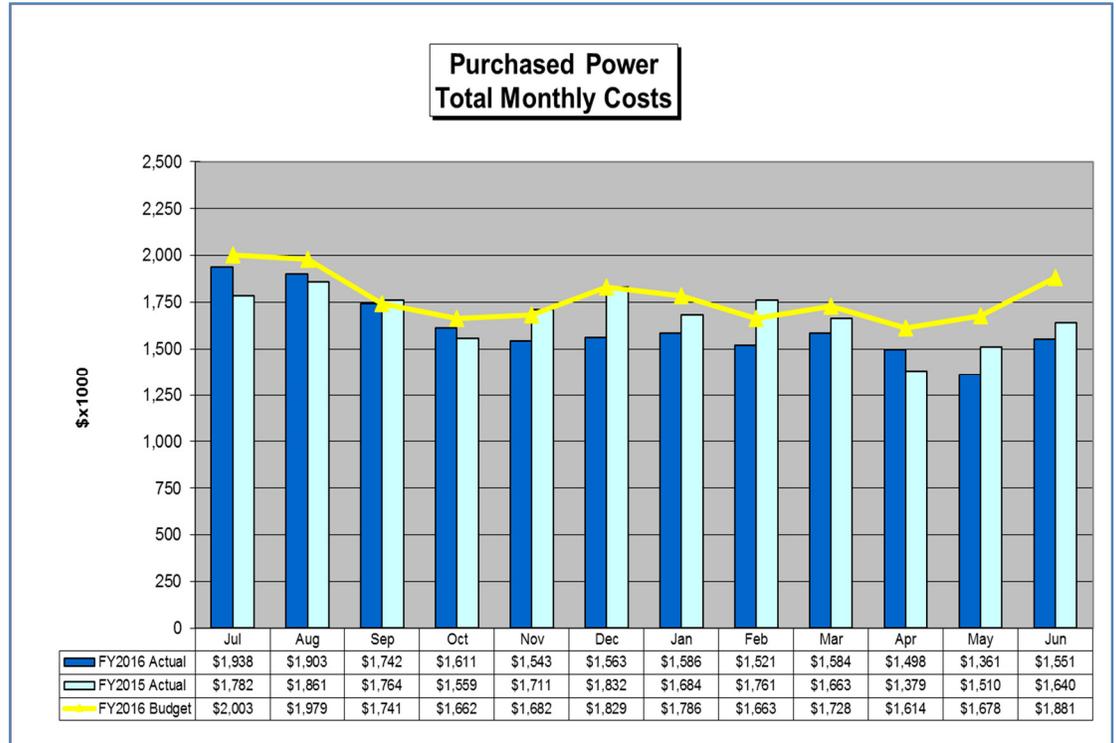


All street light upgrades are installed with LED lighting.

Although the initial cost of LED is higher, the benefit from their longer life span and reduced energy consumption more than offsets the cost. These benefits aid in stabilizing street lighting rates.

FY 2016 Purchased Power

For Fiscal Year 2016, the Electric Department purchased 332,225 megawatt hours of energy at a total cost of \$19.4 million. The average cost of power for the year was \$58.40 per megawatt hour. Comparison of actual costs with budgeted shows savings of \$1.8 million. Cost savings are automatically passed through to



ratepayers on a monthly basis through the Power Supply Cost Recovery (PSCR) factor. The primary reason for cost savings is lower than expected natural gas prices that effected the wholesale markets.

The Electric Department receives its power from a diversified portfolio of assets including ownership in generating resources (Belle River, AMP Fremont, and Campbell), renewable resources (Beebe Wind, Grainger Landfill Gas, NANR Landfill Gas) and wholesale market purchases from various sources.

Public Safety

Fire Operations Division

Fire suppression personnel responded to a structure fire located on Wilder Road on September 5, 2016. The fire inside this commercial building was extinguished without incident within an hour and a half by 7 on-duty firefighters and 5 Public Safety Officers. The Fire Marshal has ruled this fire as accidental.

Engine 5 personnel will participate in the “Back to School Bash” being held on Saturday, September 10th at A & Z Plaza on Wilder Road. Employees will demonstrate the fire truck and speak with the public about fire safety.

Community Policing Unit

On Thursday, September 8, 2016, a Sergeant and a Community Policing Officer participated in the Great Lakes Bay Job Fair hosted by Delta College at the Great Hall in Midland. During the event they had the opportunity to speak with job seekers who were interested in a career in public safety.

Public Works

Parks

A volunteer project to paint a mural on the flagstone paving slope on the east approach to the Veterans Bridge was completed last weekend. The project was sponsored by Studio 23/The Arts Center and the Farm Bureau Insurance Engelhardt Agency and privately funded by a number of charitable donations.

The mural design resulted from a competition between six local high schools. Bay City's past, present and future was the established theme. The winning design was determined by a public vote.



Local artists assisted to layout the design and oversee the painting, which was undertaken by high school students.

A transparent coating will be applied to help protect the mural from weathering and potential vandalism.

The Parks Division assisted with the project by providing in-kind services to clean and prepare the paved slope for painting. Staff also prepared the necessary paperwork required to obtain a permit and permission from MDOT, since the bridge is owned by the State.



All future maintenance of the mural will be assumed by the project sponsors. Donations for this project included funds that will establish an endowment for maintenance purposes. A second mural is being proposed for the paved slope across the river on the west approach. It's anticipated that project will be undertaken next year.



Water Distribution

Watermain Break History:

Watermain breaks occur when pipelines fail requiring an emergency response for pipeline repair by the Water Distribution Department. Causes for pipeline failures include exterior corrosion of the pipes, pressure point failures due to ground movement such as frost heaving, pressure surges from water system pumps or water hammer which is a pipeline surge from closing or opening a valve or fire hydrant to fast. Watermain breaks are typically repaired by installing a stainless steel clamp or “band aid”. Extreme watermain breaks may require pipe replacement. An average time to repair a broken watermain is approximately 6 hours. Maintaining historical records is important function to identify watermain replacement projects as capital improvements. Records dating back to 1979 were input into a data base for improved tracking. In the past 37 years there are 2,024 recorded watermain breaks which average out to 55 watermain breaks per year. Reviewing the charts below the watermain breaks in the last five years have all exceeded the 55 per year average with 2012 doubling the per year average.

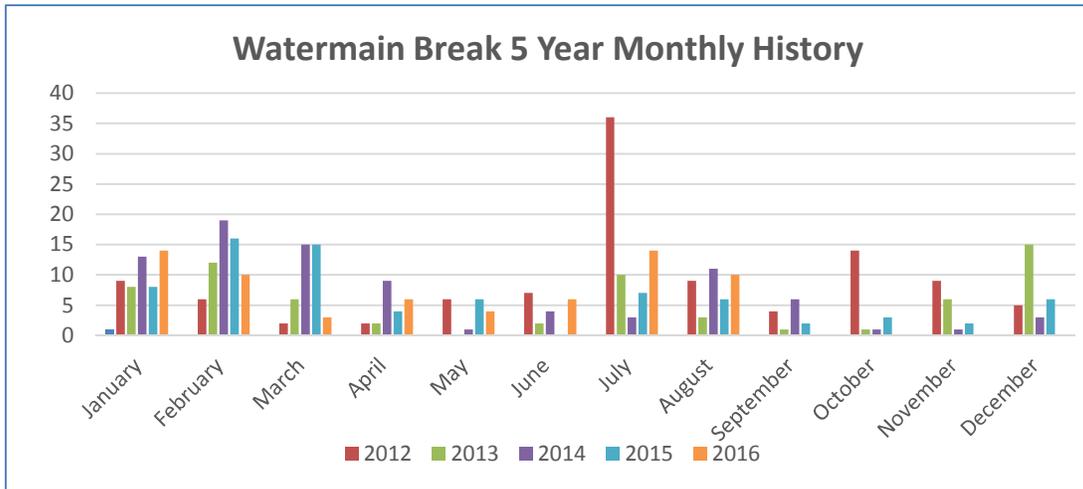
Watermain Break 5 Year Totals

	2012	2013	2014	2015	2016
January	9	8	13	8	14
February	6	12	19	16	10
March	2	6	15	15	3
April	2	2	9	4	6
May	6	0	1	6	4
June	7	2	4	0	6
July	36	10	3	7	14
August	9	3	11	6	10
September	4	1	6	2	
October	14	1	1	3	
November	9	6	1	2	
December	5	15	3	6	
Total	109	66	86	75	67

Bay City’s water system dates back to 1887 or 129 years old. Many of the existing watermain in use today exceed 100 years old. In the 37 year timeframe listed above, an estimated 35 miles of watermain have been replaced. Despite our capital improvement projects there is an increase in frequency of pipeline failures. In the last 5 years the average has grown to 80 watermain breaks per year. An increase in emergency response maintenance equates to less preventative maintenance activities.

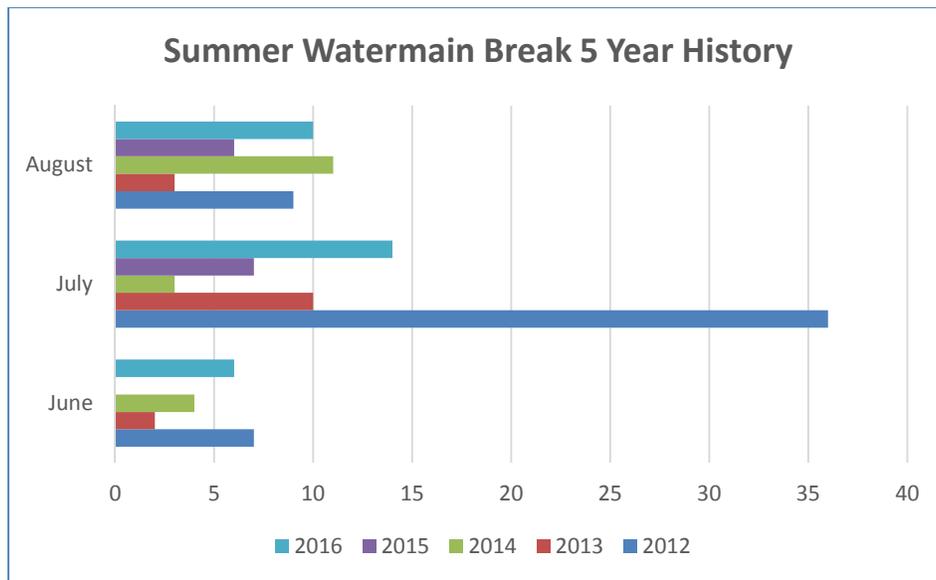
A common misconception is that watermain breaks occur during the winter. The summer months also see an increase in pipeline failures due to increase water demand in the entire water system. This summer is no exception in part due to the 2,000,000 gallon Lincoln Street water tower being out of service for painting. When in operation, a water tower levels out and

reduces pressure surges in the pipe lines. Most watermain breaks which have occurred this summer have been in the general area and influence of the Lincoln Street Water Tower.



Summer Watermain Break 5 Year History

	2012	2013	2014	2015	2016
June	7	2	4	0	6
July	36	10	3	7	14
August	9	3	11	6	10
Total	52	15	18	13	30



Wastewater Treatment Plant

Received 1.60 inches of rain on 9.14.16, filled the relief sewers and all five (5) Retention Treatment Basins, but there were no overflows to the River.

Received a load (8,000 gallons) of FeCl-3 (ferric chloride) for the Chemical feed building. The FeCl-3 helps with our phosphorus limits and settling in the secondary clarifiers.

Had problems with the south and central sludge pumps pumping up to the screw presses. We are going to change out the lobes in both these pumps to match the lobes we installed in the north pump which is giving us no problems right now.

9.9.16 - lost the use of the #3 raw sewage pump when a power surge fried the wiring to the motor. York Electric is working on the problem. Hopefully they can get it back in service today.

The north grit screw is back on site. Maintenance is installing the flights back on the screw before it is put back into service.

Retention Treatment Basin #3 capital improvement project update:

Received word that the fence that will surround the basin will be installed next week. There will also be a short delay on when both dewatering screws will arrival. They were expected in October, now they should be here sometime in December.