



City of Appleton

100 North Appleton Street
Appleton, WI 54911-4799
www.appleton.org

Meeting Agenda - Final Utilities Committee

Tuesday, March 27, 2018

5:00 PM

Council Chambers, 6th Floor

1. Call meeting to order

2. Roll call of membership

3. Approval of minutes from previous meeting

[18-0418](#) Approval of the March 13, 2018 Utilities Committee Meeting Minutes.

Attachments: [March 13, 2018 Utilities Committee Meeting Minutes.pdf](#)

4. **Public Hearings/Apearances**

5. **Action Items**

[18-0422](#) Approve Stormwater Management Alternative 1 for the urbanization of Evergreen Drive and Alvin Street.

Attachments: [Evergreen Alvin Select Alternative UC memo.pdf](#)
[Evergreen Alvin Alts 1.pdf](#)

[18-0423](#) Sole Source Purchase of Flight Scrapers to Evoqua Water Technologies for a cost of \$35,100.

Attachments: [utilities memo - DAF Flights 03-19-18.pdf](#)

6. **Information Items**

[18-0420](#) One and Two Family Stormwater Credit Summary

Attachments: [Stormwater Credit Summary.pdf](#)

[18-0421](#) Monthly Reports for February 2018:
- Water Distribution and Meter Team Monthly Report

Attachments: [Water Meter Team Reports February.pdf](#)

7. Adjournment

Notice is hereby given that a quorum of the Common Council may be present during this meeting, although no Council action will be taken.

Reasonable Accommodations for Persons with Disabilities will be made upon Request and if Feasible.

For questions on the agenda, contact Chris Shaw at 920-832-5945 or Paula Vandehey at 920-832-6474.



City of Appleton

100 North Appleton Street
Appleton, WI 54911-4799
www.appleton.org

Meeting Minutes Utilities Committee

Tuesday, March 13, 2018

5:00 PM

Council Chambers, 6th Floor

1. Call meeting to order

Chairperson Dannecker called the Utilities Committee meeting to order at 5:00 p.m.

2. Roll call of membership

Present: 5 - Dannecker, Baranowski, Meltzer, Reed and Dvorachek

3. Approval of minutes from previous meeting

[18-0342](#)

Approval of the February 27, 2018 Utilities Committee Meeting Minutes.

Attachments: [February 27, 2018 Utilities Committee Meeting Minutes](#)

Meltzer moved, seconded by Dvorachek, that the Minutes be approved. Roll Call. Motion carried by the following vote:

Aye: 4 - Dannecker, Baranowski, Meltzer and Dvorachek

Abstained: 1 - Reed

[18-0343](#)

Approval of the March 7, 2018 Special Utilities Committee Meeting Minutes.

Attachments: [March 7, 2018 SPECIAL Utilities Committee Meeting Minutes.pdf](#)

Meltzer moved, seconded by Dvorachek, that the Minutes be approved. Roll Call. Motion carried by the following vote:

Aye: 4 - Dannecker, Baranowski, Meltzer and Dvorachek

Abstained: 1 - Reed

4. Public Hearings/Appealances

5. Action Items

[18-0344](#)

Approve 2017 Annual Stormwater Report to the Wisconsin Department of Natural Resources.

Attachments: [2017 MS4 Annual Report to Utilities Committee.pdf](#)

Baranowski moved, seconded by Meltzer, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Dannecker, Baranowski, Meltzer, Reed and Dvorachek

[18-0345](#)

Preliminary Resolution 2-P-18 for Sanitary Laterals, Storm Laterals and Storm Main be adopted and refer the matter to the Finance Committee to determine the assessment rate.

Attachments: [Resolution 2-P-18.pdf](#)

Baranowski moved, seconded by Reed, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Dannecker, Baranowski, Meltzer, Reed and Dvorachek

[18-0346](#)

Award Water System Distribution Master Planning Study Update to AECOM in an amount not to exceed \$125,000.

Attachments: [Water System Distribution Master Plan Study AECOM.pdf](#)

Baranowski moved, seconded by Meltzer, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Dannecker, Baranowski, Meltzer, Reed and Dvorachek

[18-0347](#)

Approve TMDL Compliance Summary Tables.

Attachments: [TMDL Compliance Summary March 2018.pdf](#)

Baranowski moved, seconded by Meltzer, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Dannecker, Baranowski, Meltzer, Reed and Dvorachek

[18-0388](#)

Approval of an Engineering contract for the Briarcliff and Midway Road Lift Station Improvements Projects to McMahon in the amount of \$37,375 plus a 15% contingency of \$5,606 for a total cost of \$42,981.

Attachments: [UC Memo_Briarcliff and Midway Road Lift Station Improve Award_McMahon.pdf](#)

Baranowski moved, seconded by Dvorachek, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Dannecker, Baranowski, Meltzer, Reed and Dvorachek

[18-0389](#)

Approval of an Engineering contract for the Compost Facility Preliminary Engineering Project for Design and Consulting Services to Coker Composting and Consulting in the amount of \$62,142 plus a 15% contingency of \$9,321 for a total cost not to exceed \$71,463.

Attachments: [UC Memo_Compost Facility Prelim Design Award_Coker.pdf](#)

Baranowski moved, seconded by Meltzer, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Dannecker, Baranowski, Meltzer, Reed and Dvorachek

6. Information Items

[18-0348](#)

Wastewater Treatment Plant - WDNR Compliance Evaluation Inspection

Attachments: [WDNR Regulatory Inspection 2018.pdf](#)

This item was presented.

[18-0349](#)

Regulatory Upgrade and Improvement Project: CH2M Hill Settlement Claim Resolution for \$30,150.

This item was presented.

[18-0350](#)

Review stormwater management Alternatives 1 and 4 for the urbanization of Evergreen Drive and Alvin Street.

Attachments: [Evergreen Alvin Atls 1 4 info memo.pdf](#)
 [Evergreen Alvin Atls 1 and 4.pdf](#)

This item was presented.

[18-0351](#)

Regulatory Upgrade and Process Improvement Project - Concrete Wall Rebuild

Attachments: [Staab Proposal Executed 02-21-18.pdf](#)

This item was presented.

[18-0352](#)

Monthly Reports for January 2018:
- Water Distribution and Meter Team Monthly Report

Attachments: [Water Meter Team Reports January.pdf](#)

This item was presented.

7. Adjournment

Baranowski moved, seconded by Reed, that the Utilities Committee meeting be adjourned at 5:40 p.m. Roll Call. Motion carried by the following vote:

Aye: 5 - Dannecker, Baranowski, Meltzer, Reed and Dvorachek

Department of Public Works – Engineering Division

MEMO

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works
Sue Olson, Staff Engineer

DATE: March 21, 2018

RE: Approve Stormwater Management Alternative 1 for the urbanization of Evergreen Drive and Alvin Street.

On November 7, 2017, Department of Public Works staff discussed stormwater management for the Evergreen Drive and Alvin Street urbanization with the Utilities Committee. McMahon Associates had prepared six alternatives and, at that time, staff was considering alternative five (2 stormwater management ponds on Pathways Church property), as the likely best solution.

At the March 13, 2018 Utilities Committee, staff provided additional information regarding further discussions with property owners, developers, and McMahon Associates, which resulted in the current consideration for Alternative 1 or Alternative 4.

On March 15, 2018, City staff met with a potential buyer of property along Alvin Street and on March 19, 2018, a meeting was held with Pathways Church. Those discussions indicated that, although property may be purchased soon, development is likely two to three years away and Pathways Church does not desire to sell land for a regional stormwater pond in order to keep their options open for expansion. Based on those discussions, staff recommends approval of Stormwater Management Alternative 1 for the urbanization of Evergreen Drive and Alvin Street.

Alternative 1 serves the Evergreen Drive right-of-way, the Alvin Street right-of-way, and the existing development west of Alvin Street. It includes:

- Large storm sewer pipes (around 72" diameter) to store water under Evergreen Drive and Alvin Street for quantity control, which meets WisDOT peak flow control into the US 41 right-of-way
- A 12" discharge pipe and ditch combination from Alvin Street into the Pathways Church property (natural drainage direction), which requires an easement on church property
- Inlets and manholes with sumps for water quality control in both Evergreen Drive and Alvin Street, which achieve 18.7% TSS removal and 13.0% TP removal

- In addition to the catch basin sumps, the City-owned Ballard Pond achieves 79% TSS removal and 55% TP removal
- Current construction estimate \$907,000 (based on concept plans, not design)
- On-going maintenance includes Operations Sewer Crew cleaning structure sumps approximately once per year
- Future development will need to meet water quality and quantity regulations in place at the time of development

Based on the latest discussions with property owners and potential developers and the engineering concept plans prepared by McMahon Associates, staff recommends approval of Stormwater Management Alternative 1 for the urbanization of Evergreen Drive and Alvin Street. If approval is granted at this time, it is anticipated that design, permitting and construction can be completed in 2018 for paving to occur as scheduled in 2019.



Mapped Features

- Underground Detention Watershed #1 (Catch Basin Sumps along south side of W. Winrowe Drive)
- Underground Detention Watershed #2
- Drainage Area and ID
- Delineated Wetland
- Proposed Storm Sewer
- Existing Storm Sewer
- Gas Main with Approximate Top of Pipe Elevation
- Municipal Boundary
- Parcel Line
- Outfall and ID

Source: Outagamie County, 2014-17; City of Appleton, 2016-17.

Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON ASSOCIATES, INC. does not guarantee this information to be correct, current, or complete. The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.

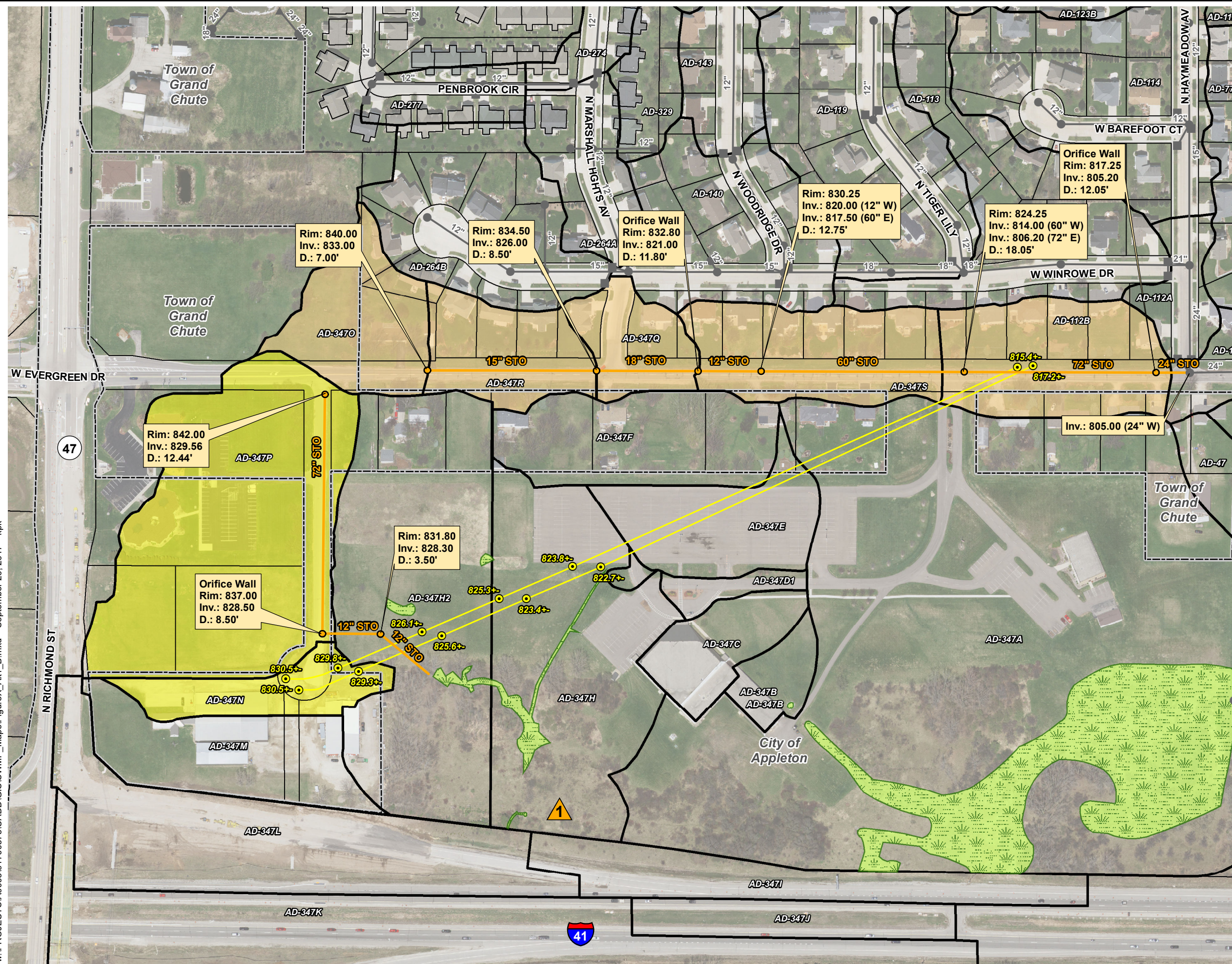


0 200 400 Feet

McMAHON
ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

**FIGURE X
ALTERNATIVE 1
EVERGREEN DRIVE AND
ALVIN STREET STORMWATER
MANAGEMENT STUDY
CITY OF APPLETON
OUTAGAMIE COUNTY, WISCONSIN**

w:\PROJECTS\A0003191700575CADD\GIS\SWMP_Maps\FigureX_Alt1_B.mxd September 20, 2017 kpk





"...meeting community needs...enhancing quality of life."

Wastewater Treatment Facility

To: Chairman Greg Dannecker and Members of the Utilities Committee

From: Chris Shaw, Director of Utilities

c: Kelli Rindt, Enterprise Fund Accounting Manager

Date: March 21, 2018

Re: *Sole Source Purchase of Flight Scrapers to Evoqua Water Technologies for a cost of \$35,100*

Background

Funding was identified in the 2018 Wastewater Treatment Program for needed equipment repairs to two Dissolved Air Flootation (DAF) units. The DAFs are used to dewater microorganisms from the aerobic process before entering digestion. A DAF can dewater 500,000 gallons of microorganisms. This process has been in service since 1978. The units continue to perform well with minimal corrective maintenance. In 1999 two of the original four DAFs were retrofitted as receiving station tanks for the hauled waste program (i.e., Receiving Station Program). From that time forward, the remaining two have alternated duty service based on operations and maintenance needs.

Project

The process scrapers that remove the microorganisms and are used in the process have worn out. The scrapers are manufactured out of carbon steel and rubber. Since the scrapers are either immersed in liquid or making contact with other tank components they are subject to wear and corrosion. Evoqua Water Technologies is the Original Equipment Manufacturer (OEM) of the DAFs and is the only source for authorized OEM parts. The Evoqua Water Technologies quote is \$35,100 for 36 scrapers.

Recommendations

I recommend purchasing 36 scrapers from Evoqua Water Technologies for a cost of \$35,100. If you have any questions regarding this issue please contact me at ph: 832-2362.

1- and 2- Family Stormwater Credit Summary

3/14/2018

# of Customers Receiving Credit	
33	Total
18	Approved in 2016
12	Approved in 2017
3	Approved in 2018

# of Practices Receiving a Credit, by Type*	
56	Rain Barrel (\$20 One-Time Credit)
2	Rain Garden (\$25 Recurring Credit)
0	Pervious Pavement (\$25 Recurring Credit)
20	Stormwater Supporter Pledge (\$10 Recurring Credit)

*Some customers are receiving credits for multiple practices

WATER SUMMARY FOR FEBRUARY 2018

Work done by Construction Maintenance				
	<u>Feb 17</u>	<u>Feb 18</u>	<u>YTD 17</u>	<u>YTD 18</u>
Hydrants repaired	2	1	3	4
Hydrants replaced	0	2	0	3
Hydrant leaks	0	0	0	0
Valves replaced	0	0	0	0
Valves tested & inspected	293	153	442	201
Valves Rebuilt	0	0	0	2
Valve boxes repaired	3	0	3	0
Curb boxes repaired	11	10	13	18
Curb boxes replaced	0	0	0	0
Lead or galvanized replaced	0	0	0	0
New services 1"	0	0	0	0
New services >1"	0	0	0	0
Water main breaks	10	7	28	24
Joint leaks repaired	0	0	1	0
Water quality	0	0	1	0
Service leaks (City side)	0	2	0	4
Work done by Meter Service Team				
	<u>Feb 17</u>	<u>Feb 18</u>	<u>YTD 17</u>	<u>YTD 18</u>
New accounts set with 3/4" or 1"	4	4	13	12
New accounts set with larger meter	0	0	1	0
Meters tested	825	36	1529	149
Meters failed	22	3	52	3
Meters stalled	0	0	0	0
Service calls	132	113	292	257
Final readings	205	199	434	425
Read meters - no reading	0	0	0	0
New meters installed	857	14	1612	50
Exception meters inspected	0	0	0	0
Exception meters removed	0	0	0	0
Service leaks found	3	5	8	9
Cross connection inspections	832	4	1553	24

**WATER MAIN BREAK/JOINT LEAK REPORT FEBRUARY
2018**

LOCATION	Work Order	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	ESTIMATED DOLLAR VALUE OF WATER REVENUE LOSS**
925 W. Brewster Street	236780	CIP	6"	1940	3" hole	4 hours	282,474	\$1,717.44
Madison Street/ Wilson Avenue	236973	CIP	6"	1956	1/16" crack	8 hours	91,168	\$554.30
Schaefer Circle/ Eastwood Court	237162	DIP	6"	1979	1/4" crack	8 hours	486,229	\$2,956.27
Marquette Street/ Viola Street	237222	CIP	6"	1953	1/16" crack	2 hours	22,792	\$138.58
937 E. Florida Avenue	237281	CIP	8"	1969	1/8" crack	8 hours	243,115	\$1,478.14
1033 W. Oklahoma Street	237503	CIP	8"	1928	1/8" crack	4 hours	113,470	\$689.90
Grider Street/ Second Street	237608	CIP	12"	1964	1/8" crack	8 hours	349,083	\$2,122.42
								\$0.00
								\$0.00

**Water loss is calculated at the residential rate of \$6.08 per 1000 gallons.

**WATER MAIN BREAK/JOINT LEAK DATA LOG FEBRUARY
2018**

Leak Location	Arterial, Collector, Freeway, Local	Type of Street Concrete/Asphalt	Major Break Minor Break	Catch Basin Draining Yes/No	Date/Time	Comments
925 W. Brewster Street	Local	Asphalt	Major	Yes 10' away	2/5/2018 12:00 a.m. Monday	Repaired right away to prevent water loss and property damage.
Madison Street/ Wilson Avenue	Local	Asphalt	Major	Yes 300' away	2/7/2018 5:00 p.m. Wednesday	Repaired right away due to water loss and ice build up.
Schaefer Circle/ Eastwood Court	Local	Terrace	Major	Yes 50' away	2/13/2018 6:00 a.m. Tuesday	Repaired during normal work hours.
Marquette Street/ Viola Street	Local	Asphalt	Major	Yes 10' away	2/14/2018 7:00 a.m. Wednesday	Repaired during normal work hours.
937 E. Florida Avenue	Local	Concrete	Major	Yes 5' away	2/17/2018 9:00 a.m. Saturday	Repaired right away due to water loss and ice build up.
1033 W. Oklahoma Street	Local	Asphalt	Major	Yes 250' away	2/26/2018 7:00 a.m. Monday	Repaired during normal work hours.

**WATER MAIN BREAK/JOINT LEAK DATA LOG FEBRUARY
2018**

Leak Location	Arterial, Collector, Freeway, Local	Type of Street Concrete/Asphalt	Major Break Minor Break	Catch Basin Draining Yes/No	Date/Time	Comments
Grider Street/ Second Street	Local	Concrete	Major	Yes 100' away	2/27/2018 6:00 p.m. Tuesday	Repaired right away due to water loss and property damage.