

City of Appleton

Meeting Agenda - Final

Utilities Committee

| Tuesday, October 24, 2017 | 5:00 PM | Council Chambers, 6th Floor |
|---------------------------|---------|-----------------------------|
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- 1. Call meeting to order
- 2. Roll call of membership
- 3. Approval of minutes from previous meeting

<u>17-1622</u> Approval of the October 10, 2017 Utilities Committee Meeting minutes.

Attachments: October 10, 2017 Utilities Committee Meeting Minutes.pdf

4. Public Hearings/Appearances

5. Action Items

<u>17-1625</u> Award contract to Patrick Engineering for design and engineering services for the Wastewater Plant Electrical Distribution Feasibility Study and Master Plan project for a contract of \$114,540.

Attachments: 2017 Wastewater Electrical Distribution Phase one design.pdf

6. Information Items

<u>17-1628</u> Discussion of 2018 Executive Budget.

<u>Attachments:</u> 2018 Water.pdf 2018 Wastewater.pdf 2018 Stormwater Utility from DPW.pdf

- 17-1632Monthly Reports for July, August, September 2017
- Wastewater Treatment Plant Synopsis and Receiving Station Revenue
Report
 - Water Treatment Facility Synopsis
 - Water Distribution and Meter Team Monthly Report September

Attachments: 2017 AWTP Q3 Synopsis.pdf

2017 AWTF Q3 Synopsis.pdf

Water Meter Team Reports September.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

Meeting Minutes Utilities Committee

| Tuesday, October 10, 2017 5:00 PM Council Chambers, 6th Flore |
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|---|

1. Call meeting to order

Chairperson Dannecker called the Utilities Commitee Meeting to order at 5 p.m.

2. Roll call of membership

Present: 4 - Dannecker, Meltzer, Reed and Dvorachek

Excused: 1 - Baranowski

3. Approval of minutes from previous meeting

<u>17-1458</u> Approval of the September 12, 2017 Utilities Committee Meeting minutes.

Attachments: September 12, 2017 Utilities Committee Meeting Minutes.pdf

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

Aye: 4 - Dannecker, Meltzer, Reed and Dvorachek

Excused: 1 - Baranowski

4. Public Hearings/Appearances

5. Action Items

<u>17-1510</u> Award Unit N-17 CIPP Liner, Spot Repairs, Protruding Tap & Mineral Deposit Removal to Great Lakes TV & Seal, Inc in an amount not to exceed \$171,000.

Attachments: N-17 attachment.pdf

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

- Aye: 4 Dannecker, Meltzer, Reed and Dvorachek
- Excused: 1 Baranowski

6. Information Items

- <u>17-1516</u> 2017 AWWTP Improvements Project Engineering Services Amendment #1 reducing Donohue total contract amount by \$25,945; Sole Source Hydraulic Analysis Contract to Donohue in the amount of \$11,980.
 - Attachments:
 AWWTP Improvements Project Donohue Contract Amendment#1 UC

 Memo.pdf

This item was presented.

<u>17-1513</u> Authorization request to sell Water Plant membrane cartridges and decommissioned ultrafiltration equipment through a consignment agreement(s). This item will be an action item at the Finance Committee meeting.

Attachments: Membrane Consignment Request.pdf

This item was presented.

- <u>17-1512</u> Discussion of 2018 Executive Budget.
 - Attachments:
 2018 Water.pdf

 2018 Wastewater.pdf

 2018 Stormwater Utility from DPW.pdf

This item was presented.

<u>17-1515</u> Appleton Water Plant Operations Supervisor Joe Myers - Recipient of the 2017 AWWA Meritorious Service Award.

This item was presented.

 17-1517
 Monthly Reports for August

 - Water Distribution and Meter Team Monthly Report

 Attachments:
 Meter Team Reports August.pdf

This item was presented.

7. Adjournment

Dvorachek moved, seconded by Meltzer, that the Utilities Committee Meeting be adjourned. Roll Call. Motion carried by the following vote:

- Aye: 4 Dannecker, Meltzer, Reed and Dvorachek
- Excused: 1 Baranowski



PARKS, RECREATION & FACILITIES MANAGEMENT Dean R. Gazza, Director 1819 East Witzke Boulevard Appleton Wisconsin 54911-8401

Appleton, Wisconsin 54911-8401 (920) 832-5572 FAX (920) 993-3103 Email - <u>dean.gazza@appleton.org</u>

TO: Utilities Committee

FROM: Dean R. Gazza, Director of Parks, Recreation and Facilities Management

DATE: 10/24/2017

RE: Action Item: Award contract to Patrick Engineering for design and engineering services for the Wastewater Plant Electrical Distribution Feasibility Study and Master Plan project for a contract of \$114,540.

The 2017 Capital Improvement budget allocated monies to perform engineering services for the Wastewater Plant Electrical Distribution Phase I Engineering. This will be the first construction phase of a multi-phase project to upgrade the aging electrical distribution equipment. Most of the equipment is over 40 years old and is at the end of its estimated and useful life.

Two firms responded to Request for Proposals. They were evaluated for relevant experience, project success, project team members, project understanding, project schedule, and cost. It was important that the firms clearly demonstrated experience in electrical distribution design and planning along with experience in working on municipal wastewater treatment facilities. The project team for evaluating the firms consisted of: the Facilities Project Manager, Facilities Manager, Facilities Lead Electrician, Parks Recreation and Facilities Management Director, and the Utilities Director.

| Patrick Engineering | \$114,540 |
|------------------------|-----------|
| Donahue and Associates | \$159,140 |

After careful review our team recommends awarding a contract to Patrick Engineering for \$114,540. The project team unanimously chose Patrick Engineering based upon experience, cost, and their proposal. We believe that our choice of Patrick Engineering will ensure that the investment is fully maximized.

Please feel free to contact me at 832-5572 with any questions, or by email at dean.gazza@appleton.org.

CITY OF APPLETON 2018 BUDGET

WATER UTILITY

Utilities Director: Chris W. Shaw Deputy Director Utilities: Christopher F. Stempa Public Works Director: Paula A. Vandehey Deputy Director/City Engineer: Ross M. Buetow Deputy Director of Operations-DPW: Nathan D. Loper

MISSION STATEMENT

The City of Appleton water treatment and distribution systems provide the community with consistently safe and high quality water utilizing the full potential of our highly motivated, technically skilled staff. It is our goal to achieve these objectives in a manner that demonstrates integrity, responsibility and economically sound practices.

DISCUSSION OF SIGNIFICANT 2017 EVENTS

WATER TREATMENT

<u>Membrane Treatment Operation</u> - The Koch Membrane System (KMS) was not operated during 2017. Regulatory approval to transition away from ultrafiltration and to the new ultraviolet light was finalized in June 2017. Water quality goals were met with increased performance for virus destruction and parasite deactivation.

<u>Ultraviolet Light Process</u> - The ultraviolet light process has performed well under the first year of operation. Plant operating costs have continued to decline for electrical, chemical and manpower as plant operations are becoming refined. The UV process equipment continues to be under warranty until 2020 and 2025.

<u>1 Million Gallon Glendale Tower</u> - The Glendale Water Tower was completed in July of 2017. The Glendale Tower replaces the 0.5 million gallon Oneida Street Tower which was taken out of service and decommissioned. The Glendale tower meets the hydraulic needs of the City's main pressure zone. The new tower remains in the warranty phase until September 2021.

<u>Matthias Water Tower</u> - The Matthias tower valve vault underwent a maintenance project to mitigate pipe and equipment corrosion and increase personnel safety issues with confined space entry.

Tank Maintenance - #3 and #4 Softener tanks were taken out of service to complete rehabilitation and coatings work. The softeners were media blasted and painted to prevent further corrosion.

<u>Plant Process Control</u> - The recently repurposed filters were optimized by water plant staff. Filter performance was improved by adjusting hydraulic loading rates, runtimes, and the backwash air and scour rates. Turbidity removals were increased by applying Aluminum Chlorohydrate (ACH).

WATER DISTRIBUTION

Celebrated National Public Works Week with a department-wide breakfast for Public Works employees Completed the Sensus/ I-perl water meter radio read system installation Continued to sell our used water meters and other components to a local scrap company

WATER ADMINISTRATION

Reviewed rate requirements. The utility had a 6.33% rate of return for 2016. The utility is currently authorized a rate of return of 7%. A rate increase is not planned for 2018 as debt coverage ratio and cash coverage have been maintained with current rates.

MAJOR 2018 OBJECTIVES

The Departments of Public Works and Utilities will work together to provide effective and efficient operation of the Water Utility in order to:

Provide water that meets all State and federal water quality standards and regulations; continue to meet WDNR requirements for annual inspections and make any requested corrections.

The water plant Supervisory Control and Data Acquisition (SCADA) system will be further upgraded for operator interfacing with the new regulatory reporting software. The system's uninterruptable power source (UPS) will also be replaced. Other SCADA improvements include replacement of field instruments.

The Glendale Water Tower construction project will be finalized by an inspection of the coatings system prior to the warranty end date.

The water distribution system will continue to be refined and balanced for pressure and flow throughout the main, medium, and high pressure zones.

The Raw Water Lake Station Project will make necessary upgrades and meet redundancy objectives for the raw water pipe that pumps water from the lake to the water plant. The existing pipe is 60 years old and will need to either be replaced or become the redundant back up to a new pipe. Other project components include a new lake intake to deter frazil ice formation and screening equipment at the shore well.

Chemical delivery systems will be repaired or replaced depending on current state of conditions. Systems for 2018 include: carbon dioxide, polyphosphate, and aluminum chlorohydrate.

Respond promptly to main breaks to minimize water loss, property damage, and disruption of service to our customers

using criteria established for emergency vs. non-emergency repairs.

Continue reviewing the lead service replacement program to reduce service replacement costs to allow for an aggressive lead service replacement schedule.

Incorporate recommendations from the water distribution study into appropriate operating and capital budget requests.

Implement customer portal for new Sensus meters to allow water utility customers to monitor their own water use. Pursue providing leak detection surveys on properties believed to have galvanized services on private property.

Install new bulk water dispensing system for better customer service.

Continue to monitor rate requirements. The last water rate increase of 10% was implemented on December 31, 2010. The utility continues to meet debt coverage ratios and cash coverage and continues to earn rate of return as approved by the Wisconsin Public Service Commission. These indicators will be reviewed upon the completion of the 2017 audit, to further determine when the next rate increase application will be filed with the Public Service Commission.

| | Programs | Actual | | % | | | |
|-----------|---------------------------|------------------|---------------|---------------|---------------|------------|----------|
| Unit | Title | 2015 | 2016 | Adopted 2017 | Amended 2017 | 2018 | Change * |
| Р | rogram Revenues | \$ 21,589,934 | \$ 22,033,410 | \$ 22,448,046 | \$ 22,448,046 | 22,411,582 | -0.16% |
| Р | rogram Expenses | | | | | | |
| 5310 | Administration | 9,827,995 | 10,299,411 | 10,059,479 | 10,059,479 | 9,953,169 | -1.06% |
| 5321 | Treatment Admin | 322,318 | 373,221 | 395,175 | 397,556 | 396,282 | 0.28% |
| 5323 | Treatment Operations | 5,593,016 | 5,747,083 | 6,627,292 | 6,647,577 | 5,718,576 | -13.71% |
| 5351 | Distribution Admin | 505,775 | 515,492 | 501,120 | 502,772 | 610,310 | 21.79% |
| 5352 | Meter Operations | 110,398 | 94,203 | 150,159 | 151,124 | 261,766 | 74.33% |
| 5353 | Distribution Operations | 1,051,289 | 1,053,581 | 1,349,769 | 1,376,633 | 1,479,198 | 9.59% |
| 5325 | Treatment Capital | 65,177 | 45,122 | 1,091,000 | 1,301,366 | 700,000 | -35.84% |
| 5370 | Distribution Capital | 78,708 | 42,704 | 4,342,347 | 5,258,528 | 3,503,847 | -19.31% |
| | TOTAL | \$ 17,554,676 | \$ 18,170,817 | \$ 24,516,341 | \$ 25,695,035 | 22,623,148 | -7.72% |
| Expens | ses Comprised Of: | | | | | | |
| Person | nel | 2,430,428 | 2,776,825 | 3,295,465 | 3,306,512 | 3,160,978 | -4.08% |
| Adminis | strative Expense | 9,562,659 | 9,893,624 | 9,764,690 | 9,764,690 | 9,649,677 | -1.18% |
| Supplie | s & Materials | 1,834,370 | 1,648,939 | 1,864,707 | 1,872,707 | 1,823,025 | -2.24% |
| Purchas | sed Services | 698,362 | 421,572 | 1,950,325 | 2,185,588 | 1,068,365 | -45.22% |
| Utilities | | 2,708,737 | 2,695,356 | 3,042,789 | 3,042,789 | 2,825,846 | -7.13% |
| Repair (| & Maintenance | 681,363 | 944,353 | 701,211 | 701,211 | 816,157 | 16.39% |
| | Expenditures | (361,243) | (209,852) | 3,897,154 | 4,821,538 | 3,279,100 | -15.86% |
| Full Tin | ne Equivalent Staff: | | | | | | |
| Person | nel allocated to programs | 37.73 | 38.24 | 38.28 | 38.28 | 36.84 | |

* % change from prior year adopted budget Water.xls

Finance Administration

Business Unit 5310

PROGRAM MISSION

For the benefit of Appleton water consumers, customer billing and financial systems will be maintained in a manner consistent with Wisconsin Public Service Commission (PSC) regulations and generally accepted accounting principles.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies # 4: "Continually assess trends affecting the community and proactively respond" and # 6: "Create opportunities and learn from successes and failures".

Objectives:

To account for water revenues from various sources, and administrative overhead costs such as interest, depreciation, insurance and other miscellaneous expenses.

Maintain customer records and accounting information in compliance with PSC regulations and generally accepted accounting principles.

Develop the full potential of all employees through seminars, training programs, and continuing education

Major changes in Revenue, Expenditures or Programs:

The capital contributions revenue represents funding provided from TIF#11 for water infrastructure up-grades.

| | PERFORMAN | CE INDICATOR | S | | |
|---|-------------|--------------|-------------|----------------|-------------|
| | Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
| Client Benefits/Impacts | | | | | |
| Timely and accurate posting of overhead | expenses | | | | |
| % of months posted within 10 days | | | | | |
| of end of month | 50% | 75% | 92% | 83% | 83% |
| Strategic Outcomes | | | | | |
| Maintain compliance with GAAP & PSC | | | | | |
| # of audit compliance issues | | | | | |
| not raised by staff | 0 | 0 | 0 | 0 | C |
| Water rate changes | | | | | |
| % per year | 0% | 0% | 0% | 0% | 0% |
| Nork Process Outputs | | | | | |
| # of bills processed | 113,384 | 113,992 | 114,500 | 114,500 | 115,000 |
| PSC Annual Report filed | On time | On time | On time | On time | On tim |
| · | | | | | |

Finance Administration

Business Unit 5310

PROGRAM BUDGET SUMMARY

| | Actual | | | | Budget | | | | |
|---|--------|-----------------------|----|-----------------------|--------|-----------------------|--------------------------|----|--------------------|
| Description | | 2015 | | 2016 | Ac | dopted 2017 | Amended 201 | 7 | 2018 |
| Revenues | | | | | | | | | |
| 4411 Sundry Permits | \$ | 315 | \$ | 210 | \$ | 500 | \$ 500 | | 200 |
| 4710 Interest on Investments | | 156,367 | · | 132,716 | · | 300,000 | . 300,000 | | 250,000 |
| 4730 Interest - Deferred Special | | 447 | | - | | - | - | | - |
| 4820 Unmetered Water Sales | | 25,618 | | 21,796 | | 25,000 | 25,000 | | 22,000 |
| 4821 Water Service - Residential | | 8,455,250 | | 8,414,600 | | 8,425,000 | 8,425,000 | | 8,375,000 |
| 4822 Water Service - Commercial | | 2,246,591 | | 2,316,117 | | 2,235,000 | 2,235,000 | | 2,285,000 |
| 4823 Water Service - Industrial | | 1,299,162 | | 1,243,460 | | 1,300,000 | 1,300,000 | | 1,250,000 |
| 4824 Water Service - Municipal | | 411,105 | | 376,420 | | 380,000 | 380,000 | | 370,000 |
| 4825 Private Fire Protection | | 252,677 | | 259,398 | | 255,000 | 255,000 | | 265,000 |
| 4826 Public Fire Protection | | 1,767,617 | | 1,784,428 | | 1,773,000 | 1,773,000 | | 1,792,000 |
| 4827 Fire Protection Wholesale 4828 Water Service - Multi-family | | 197,652 644,756 | | 198,187 666,485 | | 196,500 650,000 | 196,500 650,000 | | 196,500 700,000 |
| 4829 Sales for Resale | | 5,169,787 | | 5,337,036 | | 5,250,000 | 5,250,000 | | 5,250,000 |
| 5005 Sale of City Prop - Tax | | 26,311 | | 19,348 | | 15,000 | 15,000 | | 5,250,000 |
| 5006 Gain (Loss) on Asset Disposal | | (327,585) | | | | | | | - |
| 5016 Lease Revenue | | 258,722 | | 266,115 | | 260,000 | 260,000 | | 280,000 |
| 5021 Capital Contributions | | 502,381 | | 355,807 | | 702,450 | 702,450 | | 312,750 |
| 5030 Damage to City Property | | 3,304 | | 11,056 | | 3,500 | 3,500 | | 4,000 |
| 5035 Other Reimbursements | | 1,995 | | 9,098 | | - | - | | 2,500 |
| 5070 WTR Other Sales Flushing | | 10,124 | | 9,349 | | 8,000 | 8,000 | | 10,000 |
| 5071 Customer Penalty | | 84,210 | | 85,737 | | 87,000 | 87,000 | | 86,000 |
| 5072 WTR Misc Revenue (turn-on) | | 4,265 | | 4,475 | | 4,500 | 4,500 | | 3,000 |
| 5073 Other WTR Rev-Sewer Billing | | 134,973 | | 179,968 | | 210,000 | 210,000 | | 222,000 |
| 5077 Income from Admin Fee | | 4,970 | | 7,753 | | 5,000 | 5,000 | | 5,000 |
| 5079 Private Hydrant Testing | | 13,936 | | 13,765 | | 14,500 | 14,500 | | 14,500 |
| 5083 Emergency Water Turn Off 5086 Premium on Debt Issuance | | 509 | | 643 | | - | - | | - |
| Total Revenue | \$ | 244,475 21,589,934 | ¢ | 319,443 22,033,410 | ¢ | 348,096 22,448,046 | 348,096 \$ 22,448,046 | | 716,132 |
| Total Nevenue | φ | 21,009,904 | φ | 22,033,410 | φ | 22,440,040 | <u> </u> | | 22,411,502 |
| Expenses | | | | | | | | | |
| 6101 Regular Salary | \$ | 107,900 | \$ | 109,578 | \$ | 114,448 | \$ 114,448 | | 118,080 |
| 6105 Overtime | | 318 | | 298 | | - | | | - |
| 6150 Fringes | | 26,747 | | 170,526 | | 43,417 | 43,417 | | 49,527 |
| 6304 Postage\Freight | | 20,566 | | 18,249 | | 22,000 | 22,000 | | 24,000 |
| 6320 Printing and Reproduction | | 3,003 | | 2,392 | | 3,300 | 3,300 | | 3,300 |
| 6401 Accounting/Audit 6402 Legal Fees | | 11,317 17,896 | | 11,140 22,467 | | 12,020 22,000 | 12,020 22,000 | | 9,360 23,000 |
| 6403 Bank Services | | 21,879 | | 22,407 | | 22,000 | 23,000 | | 23,000 |
| 6413 Utilities | | 95,554 | | 97,862 | | 108,000 | 108,000 | | 108,000 |
| 6429 Interfund Allocations | | - 00,00 | | (480) | | | | | - |
| 6501 Insurance - Property | | 109,172 | | 111,462 | | 132,450 | 132,450 | | 127,710 |
| 6601 Depreciation Expense | | 4,353,070 | | 4,517,926 | | 5,065,000 | 5,065,000 | | 5,065,000 |
| 6623 Uncollectible Accounts | | 6,752 | | 3,935 | | 8,000 | 8,000 | | 8,000 |
| 6721 Bond Interest Payments | | 2,708,421 | | 2,861,629 | | 2,165,315 | 2,165,315 | | 2,021,665 |
| 6730 Debt Issuance Cost | | 296,109 | | 286,749 | | 85,000 | 85,000 | | 85,000 |
| 6751 Gain/Loss on refund Amort. | | 145,615 | | 209,558 | | 229,729 | 229,729 | | 273,727 |
| 7911 Trans Out - Gen Fund | | 1,894,688 | | 1,854,086 | | 2,025,800 | 2,025,800 | | 2,013,800 |
| 7914 Trans Out - Capital Projects | | 8,988 | • | - | • | - | - - | | - |
| Total Expense | \$ | 9,827,995 | \$ | 10,299,411 | \$ | 10,059,479 | \$ 10,059,479 | | 9,953,169 |
| DETAILED SUMMARY OF 2018 PROPO | SE | D EXPENDI | TU | RES > \$15,0 | 00 | | | | |
| | | | | | _ | | | | |
| Printing\Freight | | . | | | - | ans Out-Gen | | | |
| City Service Invoice postage | \$ | 22,500 | | | | Payment in lie | | \$ | 2,000,000 |
| City Service Invoice folding/inserting | | 1,500 | | | Α | Administratio | n tee | | 13,800 |
| | \$ | 24,000 | | | | | | \$ | 2,013,800 |
| Legal Fees | | | | | | | | | |
| PSC Assessment | \$ | 23,000 | | | | | | | |
| | \$ | 23,000 | • | | | | | | |
| | Ψ | 20,000 | • | | | | | | |

Treatment Administration

Business Unit 5321

PROGRAM MISSION

For the benefit of the Water Filtration Operations Staff, Water Utility managers will provide administrative support and mentoring to employees so that all aspects of water treatment will meet State and federal compliance.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategy # 2: "Encourage active community participation and involvement."

Objectives:

Maintain records necessary for compliance with State and federal organizations

Maintain maintenance records for equipment, procurement of chemicals, training and safety schedules, operating expenses and project status

Maintain financial records as they apply to the treatment plant

Major changes in Revenue, Expenditures or Programs:

Training\Conferences expense include fees to send up to two employees to Surface Water Chemistry training.

| | | CE INDICATOR | | | |
|--|-------------|--------------|--------------------|----------------|--------------------|
| | Actual 2015 | Actual 2016 | <u>Target 2017</u> | Projected 2017 | <u>Target 2018</u> |
| Client Benefits/Impacts | | | | | |
| Safe work environment | | | | | |
| <pre># of workers comp claims/year</pre> | 0 | 0 | 0 | 0 | 0 |
| # of first aid entries per year | 4 | 0 | 0 | 2 | C |
| Strategic Outcomes | | | | | |
| Effective use of budgeted funds | | | | | |
| % of operational budget obligated | 85% | 85% | 100% | 97% | 100% |
| Trained Staff | | | | | |
| % of staff adequately trained | 98% | 100% | 100% | 100% | 100% |
| Average # of hours training per | | | | | |
| employee | 30 | 10 | 60 | 10 | 25 |
| Shipioyoo | | | | 10 | 20 |
| Work Process Outputs | | | | | |
| Government reports prepared | | | | | |
| # and names of regular reports | | | | | |
| CCR Report | 1 | 1 | 1 | 1 | 1 |
| DNR Reports | 12 | 12 | 12 | 12 | 12 |
| SARA* Report | 1 | 2 | 2 | 2 | 2 |
| of a st hopon | • | - | - | - | - |

*Superfund Amendments and Reauthorization Act

Treatment Administration

Business Unit 5321

PROGRAM BUDGET SUMMARY

| | Ac | tual | | Budget | | | | |
|------------------------------|---------------|------|---------|--------|------------|----|------------|---------|
| Description | 2015 | | 2016 | Ad | opted 2017 | Am | ended 2017 | 2018 |
| Expenses | | | | | | | | |
| 6101 Regular Salary | \$ 218,105 | \$ | 253,301 | \$ | 264,105 | \$ | 266,178 | 260,456 |
| 6104 Call Time | 13 | | 14 | | | | | |
| 6105 Overtime | 105 | | 329 | | 2,327 | | 2,327 | 2,362 |
| 6108 Part-Time | 5,868 | | 1,696 | | 1,877 | | 1,877 | 2,798 |
| 6150 Fringes | 62,494 | | 75,610 | | 77,652 | | 77,960 | 78,409 |
| 6201 Training\Conferences | 716 | | 4,459 | | 11,000 | | 11,000 | 11,000 |
| 6301 Office Supplies | 2,116 | | 1,104 | | 2,500 | | 2,500 | 2,500 |
| 6303 Memberships & Licenses | 7,661 | | 7,841 | | 7,850 | | 7,850 | 8,000 |
| 6304 Postage/Freight | 1,138 | | 1,583 | | 1,000 | | 1,000 | 1,200 |
| 6305 Awards & Recognition | 47 | | 181 | | 210 | | 210 | 210 |
| 6307 Food & Provisions | 436 | | 316 | | 280 | | 280 | 280 |
| 6320 Printing & Reproduction | 9,595 | | 11,319 | | 10,852 | | 10,852 | 10,600 |
| 6321 Clothing | 178 | | 27 | | - | | - | - |
| 6327 Miscellaneous Equipment | - | | 696 | | - | | - | 200 |
| 6404 Consulting Services | 1,325 | | - | | - | | - | - |
| 6408 Contractor Fees | 2,671 | | 2,492 | | 3,000 | | 3,000 | 3,000 |
| 6411 Temporary Help | 276 | | - | | - | | - | - |
| 6412 Advertising | - | | - | | 1,500 | | 1,500 | 1,000 |
| 6413 Utilities | 8,759 | | 11,475 | | 10,140 | | 10,140 | 12,550 |
| 6425 CEA Equip. Rental | 815 | | 778 | | 882 | | 882 | 1,717 |
| Total Expense | \$ 322,318 | \$ | 373,221 | \$ | 395,175 | \$ | 397,556 | 396,282 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

None

Treatment Operations

Business Unit 5323

PROGRAM MISSION

For the benefit of Appleton water consumers, we will provide potable water so that customers are furnished an adequate volume of the safest, highest quality water available.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies # 4: "Continually assess trends affecting the community and proactively respond" and #6: " Create opportunities and learn from successes and failures".

Objectives:

Comply with all State and federal standards

Supply the public with safe, high quality water in sufficient quantities to support the needs of our customers

Major changes in Revenue, Expenditures or Programs:

The salary budget reflects the reduction of .3 FTE of the allocation of a shared Electrician and Maintenance Specialist with the Wastewater Utility; current maintenance needs have been reduced at the Water Treatment Facility and needs at the Wastewater Treatment Plant have increased due to aging equipment and additional lift stations coming on-line. The overtime budget has been reduced as additional time is no longer needed to maintain the membrane system.

Lab Supplies expense reflects the moving of the expense paid to outside laboratories to the Lab Fees account and maintenance of lab equipment to Contractor Fees.

Building repair and maintenance expense reflects the cost of expansion joint repair.

Contractor Fees are reduced as there are no significant maintenance or equipment upgrade projects planned for the water towers or at the treatment facility; 2017 expense was for painting the north reservoir.

The Materials expense account has been merged into the Equipment Parts expense starting in 2018.

| | Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
|--|-------------|-------------|-------------|----------------|-------------|
| Client Benefits/Impacts | | | | | |
| Adequate supply of safe drinking water % of water sampling tests in | | | | | |
| compliance per year | 100% | 100% | 100% | 100% | 100% |
| Adequate water pressure | | | | | |
| % of tests having adequate pressure | 100% | 100% | 100% | 100% | 100% |
| # of sprinkling bans per year | 0 | 0 | 0 | 0 | 0 |
| # of gallons pumped per year | 3,257 MG | 3,275 MG | 3,200 MG | 3,200 MG | 3,200 MC |
| Nork Process Outputs | | | | | |
| Efficient Plant Operation | | | | | |
| # of work days lost due to injuries | 0 | 0 | 0 | 0 | 0 |
| # of reservoirs maintaining pressure | - | - | - | - | - |
| per year | 6 | 6 | 7 | 6 | 7 |
| # of membrane repairs | 19,522 | 12,855 | 2,000 | 2,000 | 0 |
| Water towers | -) - | , | , | , | - |
| # inspected / painted per year | 2/0 | 1 /1 | 1 /1 | 1 /1 | 1/0 |

Treatment Operations

Business Unit 5323

PROGRAM BUDGET SUMMARY

| | | Ac | tual | | | | | Budget | |
|--|----|--|--|--|--|---|----------|--|-----------------|
| Description | _ | 2015 | | 2016 | Ad | opted 2017 | Am | ended 2017 | 2018 |
| Expenses | | | | | | | | | |
| 6101 Regular Salary | \$ | 600,805 | \$ | 636,604 | \$ | 668,826 | \$ | 672,470 | 659,675 |
| 6104 Call Time | | 1,373 | | 559 | | 2,832 | | 2,832 | 2,859 |
| 6105 Overtime | | 98,647 | | 91,864 | | 97,595 | | 97,595 | 85,414 |
| 6108 Part-Time | | 10,116 | | 7,289 | | - | | - | - |
| 6150 Fringes 6206 Building Moint / Innitorial | | 223,885 | | 248,066 | | 262,587 | | 263,128 | 266,732 |
| 6306 Building Maint./Janitorial 6309 Shop Supplies & Tools | | 1,833 9,428 | | 1,967 9,820 | | 2,300 11,000 | | 2,300 11.000 | 2,100 11,500 |
| 6310 Chemicals | | 1,334,340 | | 1,322,812 | | 1,400,000 | | 1,400,000 | 1,369,000 |
| 6316 Miscellaneous Supplies | | 292 | | 360 | | | | - | - |
| 6318 Materials | | 113,577 | | 11,977 | | 42,000 | | 42,000 | - |
| 6321 Clothing | | 2,411 | | 2,181 | | 2,500 | | 2,500 | 2,500 |
| 6322 Gas Purchases | | 4,607 | | 12,367 | | 5,000 | | 5,000 | 10,000 |
| 6323 Safety Supplies | | 17,284 | | 1,865 | | 6,200 | | 6,200 | 6,200 |
| 6324 Medical\Lab Supplies | | 65,681 | | 62,849 | | 73,950 | | 73,950 | 38,850 |
| 6326 Equipment Parts | | - | | 828 | | - | | - | 42,000 |
| 6327 Miscellaneous Equipment | | 30,761 | | 18,340 | | 48,500 | | 56,500 | 46,500 |
| 6404 Consulting Services | | 7,300 | | 32,366 | | 25,500 | | 33,600 | 10,000 |
| 6407 Collection Services 6408 Contractor Fees | | 1,506 130,632 | | 1,933 94,829 | | 2,550 780,500 | | 2,550 780,500 | 2,850 46,990 |
| 6413 Utilities | | 2,547,868 | | 2,530,531 | | 2,864,454 | | 2,864,454 | 2,646,025 |
| 6416 Building Repairs & Maint | | 154,198 | | 412,349 | | -,00-1,704 | | -,007,707 | 70,000 |
| 6418 Equip Repairs & Maint | | 65,918 | | 38,114 | | 30,000 | | 30,000 | 55,000 |
| 6420 Facilities Charges | | 217,164 | | 243,857 | | 250,217 | | 250,217 | 268,413 |
| 6424 Software Support | | 1,810 | | 11,015 | | 12,000 | | 12,000 | 12,900 |
| 6425 CEA Equip. Rental | | 14,059 | | 13,152 | | 13,976 | | 13,976 | 15,273 |
| 6432 Lab Fees | | - | | 16,849 | | - | | - | 20,300 |
| 6440 Snow Removal Services | | 242 | | 5,520 | | 5,000 | | 5,000 | 5,000 |
| 6454 Grounds Repair & Maint | | 5,479 | | 6,286 | | 5,500 | | 5,500 | 7,500 |
| 6599 Other Contracts/Obligations | | 14,848 | | 12,309 | | 14,305 | | 14,305 | 14,995 |
| 6899 Other Capital Outlay Total Expense | ¢ | (83,048) 5,593,016 | \$ | (101,775) 5,747,083 | \$ | 6,627,292 | \$ | 6,647,577 | 5,718,576 |
| Chemicals Ammonia Carbon dioxide Caustic soda Chlorine Ferric sulfate Fluoride Lime Poly phosphate Permanganate Powder carbon Softener Polymer ACH | \$ | 360,000 60,000 35,000 30,000 | 2- LI C D S Cor La A M | cellaneous E -channel aut ED turbidime hlorine analy R 6000 spec CADA equip ntractor Fees ab equipmer nnual safety ICC softener lag meter va | o-titi eter yzers ctrop mer <u>s</u> nt ma insp ma ilidat | rator s hotometer nt aintenance pections intenance | \$ \$ | 9,500 3,000 8,000 10,000 16,000 46,500 2,700 4,190 20,000 1,500 | |
| Softener Salt | | 2,000 | | take inspect | | | | 6,000 | |
| Other chemicals | | 5,000 | | ower cleanir | | | | 9,000 | |
| Acids | | 1,000 | — Т(| ower cathod | ic nr | otection | | 3,600 | |
| | - | | | | io pi | 010011011 | - | 10.000 | |
| | \$ | 1,369,000 | | | io pi | 010011011 | \$ | 46,990 | |
| Equipment Parts Valves & actuators Piping, hoses & tubing Filters & lubricants UV light replacements | \$ | | Mea La N B M | dical/Lab Su ab supplies itrogen ac T testing ledia & filters | pplie supj | <u>25</u> | \$ | 46,990 20,000 1,850 13,000 4,000 38,850 | |
| Valves & actuators Piping, hoses & tubing Filters & lubricants | \$ | 1,369,000 5,000 2,500 32,000 42,000 42,000 4,480 1,600 2,250 10,000 | Mec La N B M Equ D | <u>dical/Lab Su</u> ab supplies itrogen ac T testing | supplie supplie air 8 or re mair | 25 olies <u>& Maintenan</u> opairs tenance laintenance | \$ | 20,000 1,850 13,000 4,000 | |

Treatment Capital Improvements

Business Unit 5325

PROGRAM MISSION

For the benefit of Appleton water consumers, we will provide necessary improvements to all Water Filtration facilities, structures, and equipment so that high quality water is produced to meet current and future needs in a cost-effective manner.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies # 4: "Continually assess trends affecting the community and proactively respond" and # 6: "Create opportunities and learn from successes and failures".

Objectives:

Ensure the integrity of Appleton water for all customers

The following are 2018 CIPs:

| 3 1 1 1 1 1 1 1 1 | 20 | 18 Budget | Page |
|--|----|-----------|-------------------|
| Computer Control Uninterruptable Power Supply System | | 75,000 | Projects, Pg. 640 |
| Chemical Storage | | 500,000 | Projects, Pg. 623 |
| Second Raw Water Line | | 100,000 | Projects, Pg. 575 |
| HVAC | | 25,000 | Projects, Pg. 614 |
| | \$ | 700,000 | |

Major changes in Revenue, Expenditures or Programs:

No major changes.

| | CE INDICATOR | | | |
|-------------|---------------------|-------------|----------------|-------------|
| Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |

Note: Since this business unit exists solely to account for capital investments at the Water Treatment Facility, lake station and towers, there are no applicable performance measures.

Treatment Capital Improvements

Business Unit 5325

PROGRAM BUDGET SUMMARY

| | Act | ual | | | | | Budget | |
|----------------------------------|---------------|-----|-------------|----|-------------|----|-------------|---------|
| Description | 2015 | | 2016 | Ac | dopted 2017 | Am | nended 2017 | 2018 |
| Expenses | | | | | | | | |
| 6101 Regular Salary | \$ (1,829) | \$ | - | \$ | - | \$ | - | - |
| 6105 Overtime | 1,829 | | - | | - | | - | - |
| 6325 Construction Materials | 75 | | - | | - | | - | - |
| 6404 Consulting Services | 166,322 | | 51,297 | | 130,000 | | 157,163 | 125,000 |
| 6408 Contractor Fees | 178,714 | | 49,944 | | 806,000 | | 981,000 | 500,000 |
| 6599 Other Contracts/Obligations | 1,395 | | - | | - | | - | - |
| 6802 Land Improvements | 68,593 | | - | | 125,000 | | 125,000 | - |
| 6803 Buildings | 55,109 | | 125,101 | | - | | - | - |
| 6804 Equipment | 1,743,086 | | 1,503,018 | | 30,000 | | 38,203 | 75,000 |
| 6899 Other Capital Outlay | (2,148,117) | | (1,684,238) | | - | | - | - |
| Total Expense | \$ 65,177 | \$ | 45,122 | \$ | 1,091,000 | \$ | 1,301,366 | 700,000 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| Consulting Services Second raw water line HVAC replacement design | \$ \$ | 100,000 25,000 125,000 | Equipment Computer controlled power supply | \$ \$ | 75,000 75,000 |
|---|----------|------------------------------|--|----------|------------------|
| Contractor Fees Chemical storage | \$ | 500,000 500,000 | | | |

Distribution Administration

PROGRAM MISSION

Business Unit 5351

Provide administrative services to meet the needs of our customers.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies # 1: "Prompt delivery of excellent services", # 2: "Encourage active community participation and involvement", # 3: "Recognize and grow everyone's talents", # 4: "Continually assess trends affecting the community and proactively respond", # 6: "Create opportunities and learn from successes and failures", and # 7: "Communicate our success through stories and testimonials".

Objectives:

Maintain accurate records of repair and maintenance to the system and ensure completeness of all information submitted annually to the Public Service Commission

Continue to enforce the Exception Meter Policy to insure meter accuracy and recover meter costs

Continue practicing proper safety procedures when changing out old lead services

Increase inventory turnover ratio by decreasing excessive, obsolete, and rare parts from inventory

Maintain accurate records of all valves, services, and hydrants to simplify reporting to the Public Service Commission and ensure integrity of our records

Major changes in Revenue, Expenditures or Programs:

The increase in other contracts and obligations is due to an increased use of Digger's Hotline and the increase in the number of street excavation permits with Outagamie County.

We have been using summer seasonal staff to update the water records. In 2018, less staff time will be needed accounting for the decrease in part-time salary dollars as we are becoming more current with our records.

Appointment request letters will be minimal due to anticipated completion of the meter install program.

The number of cross connection inspections has been reduced in 2018 (see below), due to the anticipated completion of the meter install program. The target 2018 reflects expected customer service visits to properties where cross connection inspections will take place.

Consulting expense is for the cost to complete a distribution study. The last study was completed in 2007. Information from this study is used to prioritize new and replacement projects for water towers, transmission lines and distribution lines.

| | PERFORMANC | E INDICATORS | | | |
|------------------------------------|--------------------|--------------|-------------|----------------|-------------|
| | <u>Actual 2015</u> | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
| Client Benefits/Impacts | | | | | |
| Efficient customer service | | | | | |
| # Cross connection inspections | 6,615 | 8,977 | 7,000 | 7,000 | 1,500 |
| # Appointment request letters sent | 11,757 | 18,367 | 10,000 | 10,000 | 100 |
| Strategic Outcomes | | | | | |
| Consistent & current information | | | | | |
| Policies reviewed/updated | 1 | 0 | 1 | 1 | 1 |
| Turnover ratio of inventory | 0.72 | 0.72 | 0.80 | 0.90 | 0.90 |
| Work Process Outputs | | | | | |
| Reporting & record keeping | | | | | |
| # of reports generated for PSC | 1 | 1 | 1 | 1 | 1 |
| | | | | | |

Distribution Administration

Business Unit 5351

PROGRAM BUDGET SUMMARY

| | Actu | al | | | | E | Budget | |
|----------------------------------|---------------|----|---------|-----|------------|-----|------------|---------|
| Description | 2015 | | 2016 | Ado | opted 2017 | Ame | ended 2017 | 2018 |
| Expenses | | | | | | | | |
| 6101 Regular Salaries | \$ 237,945 | \$ | 265,433 | \$ | 263,902 | \$ | 265,340 | 267,253 |
| 6104 Call Time | 1,067 | | 1,650 | | 1,200 | | 1,200 | 1,20 |
| 6105 Overtime | 1,491 | | 916 | | 1,700 | | 1,700 | 1,50 |
| 6108 Part-Time | 22 | | 1,562 | | 4,836 | | 4,836 | |
| 6150 Fringes | 82,670 | | 125,173 | | 88,805 | | 89,019 | 92,32 |
| 6201 Training\Conferences | 2,060 | | 726 | | 3,800 | | 3,800 | 2,50 |
| 6301 Office Supplies | 706 | | 869 | | 1,200 | | 1,200 | 1,00 |
| 6303 Memberships & Licenses | 345 | | 603 | | 870 | | 870 | 87 |
| 6304 Postage\Freight | 253 | | 31 | | 260 | | 260 | 25 |
| 6305 Awards & Recognition | 618 | | 611 | | 665 | | 665 | 66 |
| 6306 Building Maint./Janitorial | 2,134 | | 2,500 | | 2,361 | | 2,361 | 2,45 |
| 6309 Shop Supplies & Tools | 23 | | 48 | | 50 | | 50 | 5 |
| 6318 Materials | 70,220 | | - | | 20,000 | | 20,000 | |
| 6320 Printing & Reproduction | 1,190 | | 1,392 | | 2,500 | | 2,500 | 2,00 |
| 6321 Clothing | 906 | | 776 | | 1,600 | | 1,600 | 1,60 |
| 6323 Safety Supplies | 815 | | 712 | | 900 | | 900 | 90 |
| 6324 Medical\Lab Supplies | 73 | | 96 | | 100 | | 100 | 10 |
| 6327 Miscellaneous Equipment | 4,549 | | 5,936 | | 4,280 | | 4,280 | 4,25 |
| 6404 Consulting Services | 3,361 | | - | | - | | - | 125,00 |
| 6412 Advertising/Publication | - | | - | | 100 | | 100 | |
| 6413 Utilities | 56,230 | | 54,998 | | 59,091 | | 59,091 | 57,47 |
| 6419 Communications Equip Rep. | 180 | | - | | - | | - | |
| 6420 Facilities Charges | 21,263 | | 21,889 | | 22,310 | | 22,310 | 22,17 |
| 6424 Software Support | 2,082 | | 3,426 | | 3,000 | | 3,000 | 3,34 |
| 6425 CEA Equip. Rental | 4,433 | | 11,093 | | 5,540 | | 5,540 | 5,54 |
| 6430 Health Services | 38 | | - | | 50 | | 50 | 5 |
| 6599 Other Contracts/Obligations | 11,101 | | 15,052 | | 12,000 | | 12,000 | 17,82 |
| Total Expense | \$ 505,775 | \$ | 515,492 | \$ | 501,120 | \$ | 502,772 | 610,31 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| Other Contracts/Obligations Excavation permits (City) Digger's Hotline fees Excavation permits (County) | \$ 6,000 7,500 <u>4,320</u> 17,820 |
|--|--|
| <u>Consulting Services</u> | \$ 125,000 |
| Distribution study | \$ 125,000 |

Meter Operations & Maintenance

Business Unit 5352

PROGRAM MISSION

The department reads, maintains and upgrades meters for the benefit of all users of the system.

PROGRAM NARRATIVE

Link to City Goals:

Implements Key Strategies # 1: "Prompt delivery of excellent services", # 2: "Encourage active community participation and involvement", # 4: "Continually assess trends affecting the community and proactively respond", # 6: "Create opportunities and learn from successes and failures", and # 7: "Communicate our success through stories and testimonials".

Objectives:

Inspect exception meters as the new meter system is installed

Ensure commercial and residential meters are the proper size and type when installing new meters

Continue to monitor cross connection program to prevent illegal connections into the City water system

Implement a Customer Portal and educate residents and customers on the use and benefits of the portal

Major changes in Revenue, Expenditures or Programs:

The 2018 budget reflects the transition of wage expense back into customer service modules as the completion of the capital project of implementing the 27,738 new Sensus meters will be completed in 2017.

The software support includes the hosting fee of the data associated with the new meter reading system adjusted for the number of active meters. The larger increase is mainly attributed to the addition of the hosting fees of the new customer service portal which will be implemented in 2018.

With the completion of the new meter installation program, the need once again to purchase meters and related cost moves back to the meter operations and maintenance business unit. This results in an increase in miscellaneous equipment to purchase 150-200 meters annually for new customers.

Increase in shop supplies and tool expense is to add three iPads for monitoring out in the field, a DeWalt air hammer & inverter, along with the additional supplies needed for the meter test bench.

| | PERFORMANC | | | | |
|----------------------------------|--------------------|-------------|-------------|----------------|-------------|
| | <u>Actual 2015</u> | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
| Client Benefits/Impacts | | | | | |
| Reliable, accurate water usage | | | | | |
| # of large meters replaced | 0 | 0 | 0 | 0 | 0 |
| # of meters tested | 6,981 | 9,266 | 7,000 | 7,000 | 50 |
| # of defective meters replaced | 248 | 436 | 50 | 50 | 50 |
| # of meters in service | 27,618 | 27,797 | 27,800 | 27,800 | 27,850 |
| Strategic Outcomes | | | | | |
| Implementation of system upgrade | | | | | |
| # of trace batteries replaced | 0 | 0 | 0 | 0 | 0 |
| # of meters replaced | 7,090 | 9,573 | 7,000 | 7,000 | 25 |
| Work Process Outputs | | | | | |
| Service provided | | | | | |
| # of service calls | 1.497 | 1.408 | 1,500 | 1,500 | 1,500 |
| System growth | ., | ., | , | , | ., |
| # new customer meters installed | 120 | 166 | 100 | 100 | 150 |
| | | | | | |

Business Unit 5352

Meter Operations & Maintenance

PROGRAM BUDGET SUMMARY

| | Actua | al | | | | | Budget | |
|---------------------------------|---------------|----|--------|----|-------------|----|------------|--------------|
| Description | 2015 | | 2016 | A | dopted 2017 | Am | ended 2017 | 2018 |
| Expenses | | | | | | | | |
| 6102 Labor Pool Allocations | \$ 55,272 | \$ | 34,612 | \$ | 64,169 | \$ | 65,009 | \$ 99,124 |
| 6104 Call Time | 113 | | 119 | | 240 | | 240 | 150 |
| 6105 Overtime | 685 | | 1,021 | | 1,150 | | 1,150 | 1,000 |
| 6150 Fringes | 23,010 | | 17,913 | | 26,241 | | 26,366 | 41,022 |
| 6304 Postage/Freight | - | | - | | 150 | | 150 | 100 |
| 6306 Building Maint./Janitorial | 142 | | - | | 150 | | 150 | 150 |
| 6309 Shop Supplies | 4,541 | | 6,639 | | 3,550 | | 3,550 | 5,900 |
| 6311 Paint & Supplies | 3 | | 9 | | - | | - | , |
| 6326 Equipment Parts | 76 | | 22 | | 1,350 | | 1,350 | 1,000 |
| 6327 Misc. Equipment | 32 | | 54 | | 250 | | 250 | 45,000 |
| 6408 Contractor Fees | 2,529 | | 4,189 | | 2,800 | | 2,800 | 500 |
| 6413 Utilities | 325 | | 490 | | 1,104 | | 1,104 | 1,800 |
| 6418 Equipment Repairs & Maint. | 456 | | 122 | | 1,850 | | 1,850 | 1,100 |
| 6424 Software Support | 21,102 | | 26,046 | | 38,755 | | 38,755 | 53,870 |
| 6425 CEA Equip. Rental | 2,112 | | 2,967 | | 8,400 | | 8,400 | 11,050 |
| Total Expense | \$ 110,398 | \$ | 94,203 | \$ | 150,159 | \$ | 151,124 | 261,766 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| <u>Misc Equipment</u> Meters - 200 Small meters Meters - 6 Large meters | \$ 40,000 5,000 |
|---|---|
| - | \$ 45,000 |
| Software Support Annual Sensus meter hosting fees GPS Software support fees AquaHawk Customer Portal | \$ 36,120 750 17,000 53,870 |

Distribution Operations and Maintenance

Business Unit 5353

PROGRAM MISSION

The department maintains the distribution mains, services, hydrants and valves to keep the system operating, reduce treated water loss and comply with PSC requirements.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies # 1: "Prompt delivery of excellent services", # 4: "Continually assess trends affecting the community and proactively respond", # 6: "Create opportunities and learn from successes and failures", and # 7: "Communicate our success through stories and testimonials".

Objectives:

Respond promptly to main breaks to minimize water loss, reduce property damage and lessen disruption of service to customers

Meet the Public Service Commission requirements with a preventive maintenance and general upkeep schedule

Monitor the cross connection program and the lead replacement program

Pursue valve maintenance to comply with Public Service Commission standards

Major changes in Revenue, Expenditures or Programs:

The 2018 budget reflects the transition of wage expense back into operations. Some of the operations staff were used to complete the installation of the 27,738 new Sensus meters.

Now being back to full staff, water distribution will continue to focus on replacing and repairing mainline valves, hydrants and curb boxes in areas with corrosive soils in 2018, as well as increasing our efforts to replace lead services. Therefore, there will also be an increase the CEA equipment and other equipment rental as more of the water equipment will be used in this business unit.

The decrease in tipping fees is the result of being able to dump all spoils at MCC's Freedom Quarry site for \$2.50/ton. This will result in a significant savings in tipping fees.

| | Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
|--|-------------|-------------|-------------|----------------|-------------|
| Client Benefits/Impacts | | | | | |
| Reliable source at adequate pressure Hydrants | | | | | |
| Replace/Upgrade | 6 | 4 | 5 | 5 | 5 |
| % of hydrants flushed | 100% | 100% | 100% | 100% | 100% |
| Water loss reported | 14% | 13% | 12% | 14% | 12% |
| Strategic Outcomes | | | | | |
| Reliability of the system | | | | | |
| # water main breaks | 71 | 92 | 85 | 85 | 80 |
| Work Process Outputs | | | | | |
| Preventive maintenance | | | | | |
| # services replaced | 0 | 19 | 25 | 30 | 25 |
| # valves exercised | 796 | 1,506 | 1,340 | 1,600 | 1,500 |
| # valves replaced | 5 | 1 | 10 | 5 | 5 |
| # curb boxes repaired | 427 | 154 | 250 | 250 | 250 |
| # joint leaks fixed | 1 | 0 | 2 | 2 | 2 |
| # of service leaks | 0 | 2 | 2 | 2 | 2 |

Distribution Operations and Maintenance

Business Unit 5353

PROGRAM BUDGET SUMMARY

| | | Actua | ıl | | Budget | | |
|---|---------------------|---|---|---|--|--------|----------------|
| Description | | 2015 | 2016 | Adopted 2017 | Amended 2017 | 2018 | 3 |
| Expenses | | | | | | | |
| 6101 Regular Salaries | \$ | 413,396 | \$ 422,461 | \$ 507,208 | \$ 508,831 | \$ 550 |),964 |
| 6104 Call Time | Ψ | 11,976 | 16,533 | 12,325 | 12,325 | | 2,325 |
| 6105 Overtime | | 28,828 | 51,426 | 35,700 | 35,700 | | 5,700 |
| 6108 Part-Time | | 1,455 | 3,699 | 5,760 | 5,760 | | 5,700 5,060 |
| | | | | | , | | |
| 6150 Fringes | | 175,425 | 195,869 | 223,823 | 224,064 | | 7,496 |
| 6308 Landscape Supplies | | - | 576 | 1,000 | 1,000 | | 1,000 |
| 6309 Shop Supplies & Tools | | 8,367 | 9,386 | 7,750 | 7,750 | | 3,150 |
| 6311 Paint & Supplies | | 1,173 | 672 | 2,375 | 2,375 | 1 | 1,375 |
| 6316 Miscellaneous Supplies | | 9 | 22,002 | - | - | | |
| 6322 Gas Purchases | | 28 | 76 | 50 | 50 | | 50 |
| 6325 Construction Materials | | 55,654 | 59,575 | 99,000 | 99,000 | | 1,000 |
| 6326 Equipment Parts | | 75,837 | 63,171 | 91,000 | 91,000 | | 5,000 |
| 6327 Miscellaneous Equipment | | 12,674 | 12,464 | 21,950 | 21,950 | 20 |),500 |
| 6328 Signs | | 48 | 1,151 | - | - | | |
| 6408 Contractor Fees | | 84,731 | 57,313 | 62,500 | 87,500 | 85 | 5,500 |
| 6415 Tipping Fees | | 31,252 | 9,000 | 25,000 | 25,000 | 20 | 0,000 |
| 6418 Equip Repairs & Maint | | 149 | 1,335 | 1,700 | 1,700 | | ,500 |
| 6425 CEA Equip. Rental | | 177,663 | 151,924 | 252,128 | 252,128 | |),578 |
| 6503 Rent | | | 1,205 | 500 | 500 | | 1,000 |
| 6899 Other Capital Outlay | | (27,376) | (26,257) | | - | | ,000 |
| Total Expense | \$ | 1,051,289 | \$ 1,053,581 | \$ 1,349,769 | \$ 1,376,633 | 1,479 | 100 |
| | | VDENDITUDI | C. 015 000 | | | | |
| DETAILED SUMMARY OF 2018 PROP | OSED E | EXPENDITURI | <u> ES > \$15,000</u> | | | | |
| Construction Materials | | | Contractor Fee | | • •• •• •• | | |
| Construction Materials Asphalt | <u>OSED E</u> \$ | 11,000 | Contractor Fee Surface resto | pration | \$ 68,000 | | |
| <u>Construction Materials</u> Asphalt Gravel | | 11,000 19,000 | <u>Contractor Fee</u> Surface resto Contractor se | oration ervices for | | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry | | 11,000 19,000 7,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b | pration ervices for reak & repair | 7,000 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone | | 11,000 19,000 7,000 2,000 | <u>Contractor Fee</u> Surface resto Contractor se | pration ervices for reak & repair | 7,000 10,500 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry | | 11,000 19,000 7,000 2,000 50,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b | pration ervices for reak & repair | 7,000 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone | | 11,000 19,000 7,000 2,000 50,000 12,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b | pration ervices for reak & repair | 7,000 10,500 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone Concrete | | 11,000 19,000 7,000 2,000 50,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b | pration ervices for reak & repair | 7,000 10,500 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone Concrete | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b | pration ervices for reak & repair | 7,000 10,500 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone Concrete Other materials | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain | oration ervices for reak & repair ting | 7,000 10,500 | | |
| Construction Materials Asphalt Gravel Slurry Stone Concrete Other materials | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> | oration ervices for reak & repair ting breaks | 7,000 10,500 \$ 85,500 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone Concrete Other materials | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 | | |
| Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone Concrete Other materials <u>Equipment Parts</u> Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 30,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone Concrete Other materials <u>Equipment Parts</u> Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| <u>Construction Materials</u> Asphalt Gravel Slurry Stone Concrete Other materials <u>Equipment Parts</u> Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs Hydrant repair parts | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 30,000 86,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| Construction Materials Asphalt Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs Hydrant repair parts Miscellaneous Equipment Barricades & Cones | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 30,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| Construction Materials Asphalt Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs Hydrant repair parts Miscellaneous Equipment Barricades & Cones | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 30,000 86,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| Construction Materials Asphalt Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs Hydrant repair parts Miscellaneous Equipment Barricades & Cones RP Valve Replacement | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 30,000 86,000 4,500 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| Construction Materials Asphalt Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs Hydrant repair parts Miscellaneous Equipment Barricades & Cones RP Valve Replacement Hydrant Meter for flushing | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 30,000 86,000 4,500 4,500 1,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| Construction Materials Asphalt Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs Hydrant repair parts Miscellaneous Equipment Barricades & Cones RP Valve Replacement Hydrant Meter for flushing Valve Turner | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 30,000 86,000 4,500 4,500 1,000 7,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| Construction Materials Asphalt Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs Hydrant repair parts Miscellaneous Equipment Barricades & Cones RP Valve Replacement Hydrant Meter for flushing Valve Turner Metrotech Locators | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 30,000 86,000 4,500 1,000 7,000 700 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |
| Construction Materials Asphalt Gravel Slurry Stone Concrete Other materials Equipment Parts Fittings, clamps, pipe, etc. for main/valve break repair Valves, sleeves, boxes, pipe & connectors for service laterals/curbs Hydrant repair parts Miscellaneous Equipment Barricades & Cones RP Valve Replacement Hydrant Meter for flushing Valve Turner | \$ | 11,000 19,000 7,000 2,000 50,000 12,000 101,000 37,000 19,000 30,000 86,000 4,500 4,500 1,000 7,000 | <u>Contractor Fee</u> Surface resto Contractor se main/valve b Hydrant pain <u>Tipping Fees</u> Water main b Pavement re | oration ervices for reak & repair ting breaks moval from | 7,000 10,500 \$ 85,500 \$ 15,000 5,000 | | |

Distribution Capital Improvements

Business Unit 5370

PROGRAM MISSION

For the health and safety of the community, the department will identify, plan, design, prepare bid specifications and manage construction contracts to replace failing or inadequate water mains, hydrants, and services, to improve the reliability of the system, prevent system failures and reduce damage to other related infrastructure and extend water service to accommodate new growth areas.

PROGRAM NARRATIVE

Link to City Goals: Implements Key Strategies # 1: "Prompt delivery of excellent services", # 2: "Encourage active community participation and involvement", # 4: "Continually assess trends affecting the community and proactively respond", # 6: "Create opportunities and learn from successes and failures", and # 7: "Communicate our success through stories and testimonials".

Objectives:

Implement the 2018 watermain program

Continue to coordinate water capital projects with other capital improvement projects Evaluate the needs of the system and prepare a five year plan to reflect those needs Replace some undersized 4 inch mains per DNR water audit Implement a bulk water dispensing station to provide 24/7 access

The following are 2018 CIPs:

Bulk Water Dispensing System Water main construction

| 20 | 018 Budget | <u>Page</u> |
|----|------------|-------------------|
| \$ | 45,000 | Projects, Pg. 639 |
| | 3,458,847 | Projects, Pg. 596 |
| \$ | 3,503,847 | |
| | | |

Major changes in Revenue, Expenditures or Programs:

Water mains reconstructed shall have improved fire flows to bring flows within conformance of current international fire flow standards for residential, commercial and industrial zoning/use. Please see the project section within the capital improvement section of the budget for further information about the watermain program.

Installation of a bulk water dispensing station provide us an opportunity to gain efficiencies and improve customer service. The new system will be available during any project schedule allowing customers 24/7 access.

| | PERFORMANC | | • | Duele stad 0017 | T |
|---|--------------------|--------------------|--------------------|-----------------|--------------------|
| | <u>Actual 2015</u> | <u>Actual 2016</u> | <u>Target 2017</u> | Projected 2017 | <u>Target 2018</u> |
| Client Benefits/Impacts | | | | | |
| Reliable and adequate service | | | | | |
| % of reconstructed streets with relay | 100% | 100% | 100% | 100% | 100% |
| # of low flow hydrants eliminated | 8 | 5 | 5 | 5 | 5 |
| Strategic Outcomes | | | | | |
| System size | | | | | |
| Miles of mains | 373* | 374 | 376 | 376 | 377 |
| % of total miles of mains reconstructed | 0.90% | 0.69% | 0.77% | 0.77% | 0.87% |
| # of hydrants in the City | 3,344 | 3,361 | 3,300 | 3,358 | 3,368 |
| # of low flow hydrants in the City | 77 | 72 | 80 | 80 | 75 |
| Work Process Outputs | | | | | |
| System expansion and improvement | | | | | |
| Miles of transmission lines added | 0.00 | 0.35 | 0.38 | 0.38 | 0.00 |
| Miles of existing mains re-laid | 3.36 | 2.58 | 2.90 | 2.90 | 3.28 |

* Moved from a manual tracking system to a more comprehensives system - GIS

Distribution Capital Improvements

Business Unit 5370

PROGRAM BUDGET SUMMARY

| | Actua | ıl | | | | | Budget | |
|----------------------------------|-----------------|----|---------------|----|-------------|----|-------------|---------------|
| Description | 2015 | | 2016 | Ac | lopted 2017 | Am | nended 2017 | 2018 |
| Expenses | | | | | | | | |
| 6101 Regular Salaries | \$ 27,805 | \$ | 25,485 | \$ | 370,395 | \$ | 370,395 | \$ 190,445 |
| 6104 Call Time | 461 | | 103 | | - | | - | - |
| 6105 Overtime | 5,281 | | 6,853 | | 10,795 | | 10,795 | 5,143 |
| 6108 Part-Time | 354 | | 261 | | 3,111 | | 3,111 | 3,330 |
| 6150 Fringes | 6,796 | | 10,001 | | 138,439 | | 138,439 | 59,629 |
| 6304 Postage\Freight | 1,894 | | 8,487 | | - | | - | - |
| 6309 Shop Supplies & Tools | 68 | | 234 | | - | | - | - |
| 6320 Printing & Reproduction | 717 | | 2,098 | | - | | - | - |
| 6325 Construction Materials | 107 | | - | | - | | - | - |
| 6326 Equipment Parts | 2,643 | | 2,043 | | - | | - | - |
| 6328 Signs | 565 | | - | | - | | - | - |
| 6404 Consulting | 8,878 | | 4,192 | | - | | - | 10,000 |
| 6408 Contractor Fees | - | | 8,100 | | 22,500 | | 22,500 | 25,000 |
| 6425 CEA Equipment Rental | (7,521) | | 0 | | 54,953 | | 54,953 | 6,200 |
| 6599 Other Contracts/Obligations | 150 | | 548 | | - | | - | |
| 6804 Machinery & Equipment | 1,296,918 | | 1,120,172 | | 127,790 | | 827,790 | 45,000 |
| 6809 Infrastructure Construction | 2,815,918 | | 2,209,571 | | 3,614,364 | | 3,830,545 | 3,159,100 |
| 6899 Other Capital Outlay | (4,082,326) | | (3, 355, 444) | | - | | - | - |
| Total Expense | \$ 78,708 | \$ | 42,704 | \$ | 4,342,347 | \$ | 5,258,528 | 3,503,847 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| | Street | | From | То | Water Utility |
|-------------------------------|---------------------------|------------------|-------------------|---------------|------------------|
| Labor Pool | | | | | 258,54 |
| CEA | | | | | 6,20 |
| Miscellaneous | Ballard Rd. & Northland | Ave intersection | | | 23,2 |
| Construction | Permit; Misc.Fees; Trail | | ater Usage County | | 10,00 |
| | Surface Restoration | Due to 2017 Wate | | | 25,0 |
| | Subtotal | | | | 58,2 |
| New Construction | Easement (Summit Par | k) | Laurie St | Summit St | 22,8 |
| | Easement n/o Christoph | , | Christopher Ct | Midway Rd | 10,3 |
| | Haymeadow Ave | | Bluewater Way | Spartan Ave | 102,3 |
| | Spartan Ave | | Haymeadow Ave | e/o | 149,3 |
| | Spartan Ave | | Richmond St | Haymeadow Ave | 122,0 |
| | Subtotal | | | | 406,7 |
| Reconstruction | Meade St (HPZ main) | | Evergreen Dr | Castlebury Dr | 104,2 |
| (not related to paving) | Rennes Easement (Unio | on St) | First Ave | Vermont St | 105,2 |
| | Warehouse Rd | , | Radio Rd | Kensington Dr | 163,8 |
| | Subtotal | | | | 373,2 |
| Reconstruction | | | | | |
| (prior to next year's paving) | Alvin St | | Evergreen Dr | cds | 89,9 |
| | Ballard Rd | | at Northland Ave | | 23,3 |
| | Carroll St - partial only | | Jackson St | Lawe St | 13,2 |
| | Center St | | North St | Atlantic St | 152,0 |
| | Durkee St | | Atlantic St | Summer St | 247,5 |
| | Hall St | | Woodland Ave | Randall St | 59,5 |
| | McDonald St | | Pershing St | Service Rd | 192,0 |
| | McDonald St | | Randall St | Glendale Ave | 119,2 |
| | Roosevelt St | | Morrison St | Durkee St | 51,4 |
| | Summit St | | Spencer St | College Ave | 156,6 |
| | Telulah Ave | | Calumet St | Marion St | 654,3 |
| | Subtotal | | | | 1,759,0 |
| Transmission | | | | | |
| | Meade St (MPZ main) | | Capitol Dr | Evergreen Dr | 596,8 |
| | Subtotal | | | | 596,8 |
| Total Water Construction | | 1 | 1 | l | 3,458,8 |
| chinery & Equipment | | | | | 3,40 |

83500 TEACHERA BUD_WAT_LN

City of Appleton 2018 Budget Revenue and Expense Summary

| BUD_WAT_LN | | Revenue and | Expense Summ | ary | | | 15:56:22 |
|--|----------------------|---------------------|--------------------|---------------------------|---------------------------|-----------------------------|---------------------------|
| Description | 2015 Actual | 2016 Actual | 2017 YTD Actual | 2017 Adopted Budget | 2017 Amended Budget | 2018 Requested Budget | 2018 Adopted Budget |
| | | | | | | | |
| REVENUES | | | | | | | |
| Permits | 315 | 210 | 105 | 500 | 500 | 200 | 200 |
| Interest Income | 156,814 | 132,716 | 264,871 | 300,000 | 300,000 | 275,000 | 250,000 |
| Charges for Services | 20,470,214 | | 14,174,087 | 20,489,500 | 20,489,500 | 20,505,500 | 20,505,500 |
| Other Revenues | | 1,279,557 | | | 1,658,046 | | |
| TOTAL REVENUES | 21,589,934 | 22,030,410 | 15,119,569 | 22,448,046 | 22,448,046 | 22,407,582 | |
| EXPENSES BY LINE ITEM | | | | | | | |
| | 200 000 | 217 075 | 242 207 | 255 402 | 265 101 | | |
| Regular Salaries | 299,906 1,124,452 | | | | 365,101 | | |
| Labor Pool Allocations Call Time | 15,003 | 1,194,668 18,978 | | 1,003,022 | | 1,777,816 16,534 | |
| Overtime | 137,184 | 152,708 | 83,396 | 149,267 | 149,267 | 143,619 | 131,119 |
| Temp. Full-Time | 200 | 152,708 | 03,390 | 149,207 | 149,207 | | 131,119 |
| Part-Time | 17,615 | | | | | | |
| Other Compensation | 11,419 | 8,623 | 7,850 | 11,245 | 15,584 11,245 | 11,135 | 12,188 11,135 |
| Shift Differential | 2,209 | 2,499 | 1,421 | 2,503 | 2,503 | 2,490 | 2,490 |
| Sick Pay | 6,119 | 13,252 | 37,266 | 0 | 0 | 0 | 0 |
| Vacation Pay | 215,293 | 210,457 | 170,760 | | 0 | 0 | 0 |
| Fringes | 612,259 | 715,716 | 170,760 580,205 | 0 860,964 0 | 862,393 | 856,985 | 855,140 |
| Pension expense / revenue | 11,231- | 127,442 | 0 | 0 | 0 | 0 | 0 |
| Salaries & Fringe Benefits | 2,430,428 | 2,776,825 | 2,252,579 | 3,295,465 | 3,306,512 | 3,175,323 | 3,160,978 |
| Training & Conferences | 2,776 | 5,185 | 2,197 | 14,800 | 14,800 | 13,500 | 13,500 |
| Memberships & Licenses | 8,006 | 8,444 | 8,647 | | 8,720 | 8,870 | 8,870 |
| Postage & Freight | 23,851 | 28,350 | 14,637 | 23,410 | 23,410 | 25,550 | 25,550 |
| Awards & Recognition | 665 | 791 | 289 | 875 | 875 | 875 | |
| Building Maintenance/Janitor. | | 4,467 | 3,187 | | 4,811 | 4,700 | |
| Food & Provisions | 436 | 316 | 0 | 280 | 280 | 280 | 280 |
| Interfund Allocations | 0 109,172 | 480- | | 0 | 0 | 0 | 0 |
| Insurance | | 111,462 | 99,333 | | 132,450 | 133,750 | 127,710 |
| Rent Depreciation Expense | 0 | 1,205 4,517,926 | 0 3,631,254 | 500 5,065,000 | 500 5,065,000 | 1,000 5,065,000 | 1,000 5,065,000 |
| | 6 850 | 2 0 2 5 | | 8,000 | 8,000 | 8,000 | |
| Bond Interest Payments | 6,752 2,708,421 | 2,861,629 | | | | | |
| Debt Issuance Costs | 296,109 | 286.749 | | 85,000 | | | |
| Gain/Loss on Refund Amort. | 296,109 145,615 | 286,749 209,559 | 14,500 172,296 | 85,000 229,729 | 85,000 229,729 | 85,000 273,727 | 85,000 273,727 |
| Trans Out - General Fund | 1,894,688 | 1,854,086 | 1,443,600 | 2,025,800 | 2,025,800 | 2,013,800 | 2,013,800 |
| Trans Out - Capital Projects | 8,988 | 0 | 0 | 0 | 0 | 0 | 0 |
| Administrative Expense | 9,562,659 | 9,893,624 | 6,864,253 | 9,764,690 | 9,764,690 | 9,658,717 | 9,649,677 |
| Landscape Supplies | 0 | 576 | 338 | 1,000 | 1,000 | 1,000 | 1,000 |
| Shop Supplies & Tools | 22,427 | 26,127 | 13,211 | 22,350 | 22,350 | 25,600 | 25,600 |
| Chemicals | 1,334,340 | 1,322,812 | 739,367 | 1,400,000 | 1,400,000 | 1.369.000 | 1.369.000 |
| Treatment Chemicals | 2,822 | 1,974 | | 3,700 | | | 3,500 |
| Paint & Supplies | 1,176 | 681 | 381 | 2,375 | 2,375 | | |
| Miscellaneous Supplies | 292 | 22,360 | | 0 | 0 | 0 0 | 0 |
| Materials | 183,797 | 11,977 | 504 | 62,000 | | 15 000 | 0 |
| Printing & Reproduction | 14,505 3,495 | 17,201 | 5,641 | 16,652 4,100 | 10,052 | 15,900 4,100 | 15,900 4,100 |
| Clothing Gas Purchases | 3,495 4,634 | 2,986 12,443 | 1,863 5,483 | 4,100 5 050 | 4,100 | 4,100 10 050 | 4,100 |
| Safety Supplies | 4,034 | 2,577 | | | | 10,050 7,100 | 7,100 |
| Medical & Lab Supplies | 65,754 | | 29.912 | 74.050 | 74.050 | 38.950 | 38.950 |
| Construction Materials | 55,836 | 62,945 59,575 | 58,936 | 99,000 | 74,050 99,000 | 101,000 | 101,000 |
| Vehicle & Equipment Parts | 78,555 | 66,065 | 59,522 | 92,350 | 92,350 | 129,000 | 129,000 |
| Miscellaneous Equipment Signs | 48,016 612 | 37,490 1,150 | | 74,980 0 | 92,350 82,980 0 | 93,950 0 | 116,450 0 |
| Supplies & Materials | | | 884 949 580 | | | | |
| | | | | | | | |
| Accounting/Audit | 11,317 | 11,140 22,467 | 0 | 12,020 | | 0 | 9,360 |
| Legal Fees | 17,896 | 22,467 | 0 | 22,000 | 22,000 | 23,000 | 23,000 |
| Bank Services | 21,879 | 22,034 | 13,102 22 245 | 23,000 | 23,000 190,763 | 23,000 | 23,000 |
| Consulting Services Collection Services | 187,186 1,506 | 01,004 | 33,345 1 570 | 700,500 705,500 | 2,550 | 970,000 9 REA | 2/0,000 2 REA |
| COTTECTION DELVICES | 1,3U0 | 1,933 | 1,5/2 | ∠,550 | ∠,550 | 2,050 | 4,000 |

City of Appleton 2018 Budget Revenue and Expense Summary

| Description | 2015 Actual | 2016 Actual | 2017 YTD Actual | 2017 Adopted Budget | 2017 Amended Budget | 2018 Requested Budget | 2018 Adopted Budget |
|-------------------------------|----------------|----------------|--------------------|---------------------------|---------------------------|-----------------------------|---------------------------|
| Contractor Fees | 399,277 | 216,867 | 82,674 | 1,677,300 | 1,877,300 | 660,990 | 660,990 |
| Temporary Help | 276 | 0 | 0 | 0 | 0 | 0 | 0 |
| Advertising | 0 | 0 | 0 | 1,600 | 1,600 | 1,000 | 1,000 |
| Tipping Fees | 31,252 | 9,000 | 6,995 | 25,000 | 25,000 | 20,000 | 20,000 |
| Health Services | 38 | 0 | 0 | 50 | 50 | 50 | 50 |
| Lab Fees | 0 | 16,849 | 4,597 | 0 | 0 | 20,300 | 20,300 |
| Snow Removal Services | 241 | 5,520 | 1,421 | 3,250 | 3,250 | 5,000 | 5,000 |
| Other Contracts/Obligations | 27,494 | 27,908 | 22,608 | 28,055 | 28,055 | 32,842 | 32,815 |
| Purchased Services | 698,362 | 421,572 | 166,314 | 1,950,325 | 2,185,588 | 1,759,032 | 1,068,365 |
| Electric | 686,159 | 675,874 | 419,220 | 698,790 | 698,790 | 643,970 | 643,970 |
| Gas | 128,827 | 96,467 | 70,495 | 129,150 | 129,150 | 111,790 | 111,790 |
| Water | 134,189 | 131,758 | 92,856 | 143,980 | 143,980 | 144,120 | 144,120 |
| Waste Disposal/Collection | 24,181 | 18,196 | 11,865 | 21,690 | 21,690 | 21,790 | 21,790 |
| Fuel Oil | 1,690,091 | 1,723,015 | 1,013,563 | 2,000,000 | 2,000,000 | 1,850,000 | 1,850,000 |
| Stormwater | 23,004 | 24,928 | 17,398 | 23,595 | 23,595 | 26,366 | 26,366 |
| Telephone | 16,493 | 16,713 | 12,717 | 17,760 | 17,760 | 17,760 | 17,760 |
| Cellular Telephone | 5,793 | 8,405 | 7,012 | 7,824 | 7,824 | 10,050 | 10,050 |
| Utilities | 2,708,737 | 2,695,356 | 1,645,126 | 3,042,789 | 3,042,789 | 2,825,846 | 2,825,846 |
| Building Repair & Maintenance | 154,198 | 412,349 | 105 | 0 | 0 | 70,000 | 70,000 |
| Equipment Repair & Maintenanc | 66,523 | 39,571 | 12,383 | 33,550 | 33,550 | 57,600 | 57,600 |
| Communications Equip. Repairs | 180 | 0 | 0 | 0 | 0 | 0 | 0 |
| Facilities Charges | 238,428 | 265,747 | 123,264 | 272,527 | 272,527 | 290,589 | 290,589 |
| Software Support | 24,994 | 40,487 | 71,300 | 53,755 | 53,755 | 70,110 | 70,110 |
| CEA Equipment Rental | 191,561 | 179,913 | 223,589 | 335,879 | 335,879 | 320,358 | 320,358 |
| Grounds Repair & Maintenance | 5,479 | 6,286 | 5,127 | 5,500 | 5,500 | 7,500 | 7,500 |
| Repair & Maintenance | 681,363 | 944,353 | 435,768 | 701,211 | 701,211 | 816,157 | 816,157 |
| Land Improvements | 68,593 | 0 | 101,637 | 125,000 | 125,000 | 0 | 0 |
| Buildings | 55,109 | 125,101 | 0 | 0 | 0 | 0 | 0 |
| Machinery & Equipment | 3,040,004 | 2,623,190 | 23,137 | 157,790 | 865,993 | 120,000 | 120,000 |
| Infrastructure Construction | 2,815,918 | 2,209,571 | 2,599,522 | 3,614,364 | 3,830,545 | 3,159,100 | 3,159,100 |
| Other Capital Outlay | 6,340,867- | 5,167,714- | 0 | 0 | 0 | 0 | 0 |
| Capital Expenditures | 361,243- | 209,852- | 2,724,296 | 3,897,154 | 4,821,538 | 3,279,100 | 3,279,100 |
| TOTAL EXPENSES | 17,554,676 | 18,170,817 | 15,037,916 | 24,516,341 | 25,695,035 | 23,314,700 | 22,623,148 |

CITY OF APPLETON 2018 BUDGET WATER UTILITY STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET ASSETS

| Revenues Charges for Services Miscellaneous Total Revenues | 2015 Actual \$ 20,470,214 538,665 21,008,879 | 2016 Actual \$ 20,617,927 599,764 21,217,691 | 2017 Budget \$ 20,489,500 603,000 21,092,500 | 2017 Projected \$ 20,400,000 609,000 21,009,000 | 2018 Budget \$ 20,505,500 622,200 21,127,700 |
|--|--|--|--|---|--|
| Expenses | | | | | |
| Operation and Maintenance Depreciation Total Expenses | 8,078,526 4,353,070 12,431,596 | 8,440,868 4,517,926 12,958,794 | 9,512,150 5,065,000 14,577,150 | 9,539,297 4,985,000 14,524,297 | 8,960,109 5,065,000 14,025,109 |
| Operating Income (Loss) | 8,577,283 | 8,258,897 | 6,515,350 | 6,484,703 | 7,102,591 |
| Non-Operating Revenues (Expenses) | | | | | |
| Investment Income Interest Expense Gain/Loss on Refunding Gain/Loss on Asset Disposal | 156,814 (2,708,421) (145,615) (327,585) | 132,716 (2,861,629) (209,559) | 300,000 (2,165,315) (229,729) | 275,000 (2,145,115) (229,729) | 250,000 (2,021,665) (273,727) |
| Amortization of Premium on Debt Debt Issue Costs Other Total Non-Operating | 244,475 (296,109) <u>4,970</u> (3,071,471) | 319,443 (286,749) <u>4,753</u> (2,901,025) | 348,096 (85,000) <u>5,000</u> (1,826,948) | 660,997 - 5,000 (1,433,847) | 716,132 (85,000) <u>5,000</u> (1,409,260) |
| Net Income Before Contributions and Transfers | 5,505,812 | 5,357,872 | 4,688,402 | 5,050,856 | 5,693,331 |
| Contributions and Transfers In (Out) | | | | | |
| Capital Contributions General Fund Tax Equivalent Capital Projects | 502,381 (22,788) (1,950,147) - | 355,807 (13,800) (1,840,286) | 702,450 (13,800) (2,012,000) - | 342,622 (13,800) (1,916,440) - | 312,750 (13,800) (2,000,000) - |
| Change in Net Assets | 4,035,258 | 3,859,593 | 3,365,052 | 3,463,238 | 3,992,281 |
| Net Assets - Beginning | 75,680,742 | * 79,716,000 | 83,575,593 | 83,575,593 | 87,038,831 |
| Net Assets - Ending | \$ 79,716,000 | \$ 83,575,593 | \$ 86,940,645 | \$ 87,038,831 | \$ 91,031,112 |

* as restated

SCHEDULE OF CASH FLOWS

| Working Cash - Beginning of Year + Change in Net Assets - Capital Contributions | \$ 11,366,875 3,463,238 (342,622) | \$ 6,187,597 3,992,281 - |
|---|---|--|
| + Depreciation + Long Term Debt - Fixed Assets - Principal Repayment | 4,985,000 (6,384,894) (6,900,000) | 5,065,000 3,800,000 (4,203,847) (6,585,000) |
| Working Cash - End of Year | <u>\$ 6,187,597</u> | \$ 8,256,031 |

CITY OF APPLETON 2018 BUDGET WATER UTILITY CALCULATION OF RATE INCREASE DOCUMENTATION

| Revenues | 2017 Budget | 2017 Projected | 2018 Budget | 2019 Projected | 2020 Projected | 2021 Projected | 2022 Projected |
|--|---|---|---|---|--|---|---|
| Charges for Services Miscellaneous Total Revenues | \$20,489,500 603,000 21,092,500 | \$20,400,000 609,000 21,009,000 | \$20,505,500 622,200 21,127,700 | \$ 20,608,028 634,644 21,242,672 | \$ 20,711,068 647,337 21,358,405 | \$ 20,814,623 660,284 21,474,907 | \$ 20,918,696 673,489 21,592,185 |
| Expenses | | | | | | | |
| Operating Expenses Depreciation Total Expenses | 9,512,150 5,065,000 14,577,150 | 9,539,297 <u>4,985,000</u> 14,524,297 | 8,960,109 5,065,000 14,025,109 | 9,953,912 <u>5,265,000</u> 15,218,912 | 9,830,780 5,465,000 15,295,780 | 10,265,703 5,690,000 15,955,703 | 10,108,674 5,915,000 16,023,674 |
| Operating Income | 6,515,350 | 6,484,703 | 7,102,591 | 6,023,759 | 6,062,625 | 5,519,204 | 5,568,511 |
| Non-Operating Revenues (Expenses) | | | | | | | |
| Interest Income Interest Expense Gain/Loss on Refunding Amortization of Debt Premium Debt Issuance Expense Other Total Non-Operating | 300,000 (2,165,315) (229,729) 348,096 (85,000) <u>5,000</u> (1,826,948) | 275,000 (2,145,115) (229,729) 660,997 - - - 5,000 (1,433,847) | 250,000 (2,021,665) (273,727) 716,132 (85,000) <u>5,000</u> (1,409,260) | 200,000 (1,972,765) (245,210) 625,199 (80,000) <u>5,000</u> (1,467,777) | 200,000 (1,906,765) (212,552) 509,650 (100,000) 5,000 (1,504,667) | 200,000 (1,947,115) (179,806) 383,341 (80,000) <u>5,000</u> (1,618,580) | 200,000 (1,803,315) (146,991) 256,901 (80,000) <u>5,000</u> (1,568,405) |
| Net Income Before Transfers | ۔ 4,688,402 | ۔ 5,050,856 | ۔ 5,693,331 | ۔ 4,555,982 | - 4,557,958 | 3,900,623 | 4,000,106 |
| Contributions and Transfers In (Out) | | | | | | | |
| Capital Contributions Trans Out - General Fund Tax Equivalent Capital Projects | 702,450 (13,800) (2,012,000) | 342,622 (13,800) (1,916,440) | 312,750 (13,800) (2,000,000) - | - (13,800) (2,150,000) - | 159,080 (13,800) (2,300,000) | (13,800) (2,450,000) | (13,800) (2,600,000) - |
| Change in Net Assets | 3,365,052 | 3,463,238 | 3,992,281 | 2,392,182 | 2,403,238 | 1,436,823 | 1,386,306 |
| Total Net Assets - Beginning | 83,575,593 | - 83,575,593 | 87,038,831 | 91,031,112 | 93,423,294 | 95,826,532 | 97,263,355 |
| Total Net Assets - Ending | \$86,940,645 | \$87,038,831 | \$91,031,112 | \$ 93,423,294 | \$ 95,826,532 | \$ 97,263,355 | \$ 98,649,661 |
| | | SCHEI | DULE OF CAS | SH FLOWS | | | |
| Cash - Beginning of the Year + Change in Net Assets + Depreciation + Long Term Debt - Contributed Capital - Fixed Assets - Principal Repayment | | 11,366,875 3,463,238 4,985,000 (342,622) (6,384,894) (6,900,000) | 6,187,597 3,992,281 5,065,000 3,800,000 - (4,203,847) (6,585,000) | 8,256,031 2,392,182 5,265,000 3,300,000 (4,328,011) (6,800,000) | 8,085,202 2,403,238 5,465,000 8,700,000 (159,080) (11,629,442) (6,845,000) | 6,019,918 1,436,823 5,690,000 3,500,000 (4,767,555) (7,185,000) | 4,694,186 1,386,306 5,915,000 3,000,000 (4,065,607) (3,585,000) |
| Working Cash - End of Year | | \$ 6,187,597 | \$ 8,256,031 | \$ 8,085,202 | \$ 6,019,918 | \$ 4,694,186 | \$ 7,344,885 |

25% Working Capital Reserve (prior year's audited expenses)

Coverage Ratio

ASSUMPTIONS:

Borrow 75% of capital expenditures as detailed in the five year plan for years 2018-2022

Interest rate at 4% twenty year term for all future debt issues

Revenue increases of 1/2% per year for additional customer base

Operating expenses to increase 3.0% per year after 2018

Includes in O&M expense for painting of the North Reservoir at a cost of \$675,000 in 2017, of the Lindbergh Standpipe at a cost of \$725,000 in 2019, of the Ridgeway Tower at a cost of \$325,000 in 2020 and of the Matthias Tower at a cost of \$465,000 in 2021

3,400,213

1.47

1.40

3,245,444

1.38

3,519,169

1.37

3,509,386

1.30

Maintain a level of 25% working capital reserve and 1.10 coverage ratio as required by bond covenants

RESULTS:

Rates should be monitored on an annual basis for adjustment based on actual results or changes in circumstances. The projections are shown with the current rates and no adjustments for any approved rate increase by the Public Service Commission. A rate study would be completed in the year prior to any rate increase; that rate increase would require PSC approval prior to implementation. The current water rates were effective 12/30/2010.

3,665,705

1.25

CITY OF APPLETON 2018 BUDGET WATER UTILITY LONG TERM DEBT

| | | 200 | 08 | 20 | 11 | | 20 | 12 | |
|------|----|-----------|----------|-----------------|-------|----------|-----------------|--------|----------|
| | | Revenue | Bonds | Revenu | e Bon | ds | Revenue | e Bono | ds |
| | F | Principal | Interest | Principal | | Interest | Principal | | Interest |
| 2018 | | 720,000 | - | 140,000 | | 94,610 | 110,000 | _ | 61,605 |
| 2019 | | - | - | 145,000 | | 90,260 | 115,000 | | 58,155 |
| 2020 | | - | - | 150,000 | | 84,260 | 120,000 | | 54,555 |
| 2021 | | - | - | 155,000 | | 78,060 | 125,000 | | 50,805 |
| 2022 | | - | - | 160,000 | | 71,660 | 125,000 | | 47,055 |
| 2023 | | - | - | 170,000 | | 64,860 | 130,000 | | 43,155 |
| 2024 | | - | - | 175,000 | | 57,860 | 135,000 | | 39,105 |
| 2025 | | - | - | 180,000 | | 50,660 | 140,000 | | 34,765 |
| 2026 | | - | - | 190,000 | | 43,060 | 145,000 | | 30,270 |
| 2027 | | - | - | 195,000 | | 35,260 | 145,000 | | 25,775 |
| 2028 | | - | - | 205,000 | | 27,060 | 150,000 | | 21,125 |
| 2029 | | - | - | 215,000 | | 18,460 | 155,000 | | 16,088 |
| 2030 | | - | - | 220,000 | | 9,660 | 160,000 | | 10,888 |
| 2031 | | - | - | 230,000 | | - | 165,000 | | 5,525 |
| 2032 | | - | - | - | | - | 170,000 | | - |
| | \$ | 720,000 | \$- | \$ 2,530,000 | \$ | 725,730 | \$ 2,090,000 | \$ | 498,871 |

| | 201 | 13 | 20 | | 20 | 15 |
|------|--------------|---|---|--------------|--------------|---|
| | Revenue | Bonds | Revenue | e Bonds | Revenue | e Bonds |
| | Principal | Interest | Principal | Interest | Principal | Interest |
| 2018 | 295,000 | 250,850 | 160,000 | 123,100 | 215,000 | 179,800 |
| 2019 | 300,000 | 241,850 | 165,000 | 119,800 | 220,000 | 173,200 |
| 2020 | 310,000 | 232,550 | 165,000 | 114,850 | 230,000 | 166,300 |
| 2021 | 320,000 | 219,750 | 170,000 | 109,750 | 235,000 | 159,250 |
| 2022 | 335,000 | 206,350 | 175,000 | 104,500 | 240,000 | 152,050 |
| 2023 | 350,000 | 192,350 | 180,000 | 99,100 | 250,000 | 142,050 |
| 2024 | 365,000 | 177,750 | 190,000 | 93,400 | 260,000 | 131,650 |
| 2025 | 380,000 | 162,550 | 195,000 | 85,600 | 270,000 | 120,850 |
| 2026 | 395,000 | 145,388 | 200,000 | 77,600 | 280,000 | 112,450 |
| 2027 | 410,000 | 127,588 | 210,000 | 69,200 | 290,000 | 103,750 |
| 2028 | 430,000 | 108,938 | 220,000 | 60.400 | 300,000 | 91,750 |
| 2029 | 450,000 | 89,250 | 230,000 | 51,200 | 310,000 | 79,350 |
| 2030 | 470,000 | 68,688 | 235,000 | 41.800 | 325.000 | 66,350 |
| 2031 | 490,000 | 47,250 | 245,000 | 32,000 | 340,000 | 52,750 |
| 2032 | 515,000 | 24,075 | 255,000 | 21.800 | 350,000 | 41,375 |
| 2033 | 535,000 | - | 265,000 | 11,200 | 365,000 | 26,775 |
| 2034 | , | - | 280,000 | - | 375.000 | 13,650 |
| 2035 | - | - | | - | 390,000 | - |
| | | | | | | |
| | \$ 6,350,000 | \$ 2,295,177 | \$ 3,540,000 | \$ 1,215,300 | \$ 5,245,000 | \$ 1,813,350 |
| | , .,, | , | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , , , | , .,, | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |

| | 201 | 5 | 20 | 16 | 20 | 16 | | | |
|------|---------------|--------------|--------------|--------------|---------------|--------------|---------------|---------------|---------------|
| | Refunding | - | Revenue | | Refundin | | | TOTAL | |
| | Principal | Interest | Principal | Interest | Principal | Interest | Principal | Interest | Total |
| 2018 | 800,000 | 557,900 | 135,000 | 114,400 | 4,325,000 | 601,400 | 6,900,000 | 1,983,665 | 8,883,665 |
| 2019 | 1,570,000 | 510,800 | 135,000 | 110,350 | 3,935,000 | 483,350 | 6,585,000 | 1,787,765 | 8,372,765 |
| 2020 | 1,615,000 | 462,350 | 140,000 | 104,750 | 4,070,000 | 320,550 | 6,800,000 | 1,540,165 | 8,340,165 |
| 2021 | 1,665,000 | 412,400 | 145,000 | 98,950 | 3,920,000 | 163,750 | 6,735,000 | 1,292,715 | 8,027,715 |
| 2022 | 1,720,000 | 360,800 | 150,000 | 92,950 | 4,075,000 | 750 | 6,980,000 | 1,036,115 | 8,016,115 |
| 2023 | 1,775,000 | 289,800 | 160,000 | 88,150 | 15,000 | 300 | 3,030,000 | 919,765 | 3,949,765 |
| 2024 | 1,850,000 | 215,800 | 160,000 | 83,350 | 10,000 | - | 3,145,000 | 798,915 | 3,943,915 |
| 2025 | 1,920,000 | 139,000 | 165,000 | 78,400 | - | - | 3,250,000 | 671,825 | 3,921,825 |
| 2026 | 1,990,000 | 79,300 | 170,000 | 73,300 | - | - | 3,370,000 | 561,368 | 3,931,368 |
| 2027 | 1,110,000 | 46,000 | 180,000 | 66,100 | - | - | 2,540,000 | 473,673 | 3,013,673 |
| 2028 | 1,150,000 | - | 185,000 | 58,700 | - | - | 2,640,000 | 367,973 | 3,007,973 |
| 2029 | - | - | 195,000 | 50,900 | - | - | 1,555,000 | 305,248 | 1,860,248 |
| 2030 | - | - | 200,000 | 42,900 | - | - | 1,610,000 | 240,286 | 1,850,286 |
| 2031 | - | - | 210,000 | 34,500 | - | - | 1,680,000 | 172,025 | 1,852,025 |
| 2032 | - | - | 215,000 | 28,050 | - | - | 1,505,000 | 115,300 | 1,620,300 |
| 2033 | - | - | 225,000 | 21,300 | - | - | 1,390,000 | 59,275 | 1,449,275 |
| 2034 | - | - | 230,000 | 14,400 | - | - | 885,000 | 28,050 | 913,050 |
| 2035 | - | - | 235,000 | 7,350 | - | - | 625,000 | 7,350 | 632,350 |
| 2036 | | | 245,000 | | | | 245,000 | - | 245,000 |
| | \$ 17,165,000 | \$ 3,074,150 | \$ 3,480,000 | \$ 1,168,800 | \$ 20,350,000 | \$ 1,570,100 | \$ 61,470,000 | \$ 12,361,478 | \$ 73,831,478 |

Note: Schedule is based on accrual method of accounting. Revenue bonds in the amount of \$3,800,000 will be issued in 2018. Expected interest expense of the issue in 2018 is \$38,000 at 4%.

CITY OF APPLETON 2018 BUDGET

WASTEWATER UTILITY

Utilities Director: Chris W. Shaw Deputy Director Utilities: Christopher F. Stempa Public Works Director: Paula A. Vandehey Deputy Director/City Engineer: Ross M. Buetow Deputy Director of Operations-DPW: Nathan D. Loper

MISSION STATEMENT

The City of Appleton Wastewater Treatment and Collections Systems provide the community with essential wastewater treatment services utilizing the full potential of highly motivated and technically skilled staff. It is our goal to maintain maximum standards of community health and safety, while protecting and preserving the environment, in a manner that demonstrates integrity, responsibility, and economically sound practices.

DISCUSSION OF SIGNIFICANT 2017 EVENTS

WASTEWATER TREATMENT

Total Maximum Daily Load

The Appleton Wastewater Treatment Plant's (AWWTP) Wisconsin Discharge Elimination System (WPDES) permit was reissued effective April 1, 2017. The reissued permit contains language addressing lower phosphorus and total suspended solids treatment limits resulting from Total Maximum Daily Load (TMDL) legislation. During 2017 the AWWTP continued full-scale chemical treatment studies to determine the ability to consistently meet future total phosphorus effluent loading limits (e.g. 23 pound per day as six month average) while staying abreast of alternative compliance opportunities provided through Water Quality Trading (WQT) and Adaptive Management (AM).

Midway Road Lift Station Improvements

Preliminary engineering to site a stand-by emergency power generator at the Midway Lift Station was initiated in the fall of 2015. Further project development during 2016 identified spatial limitations within the Midway Road right-of-way that were coupled with existing underground utilities along the north side of the lift station site. Those findings necessitated the steps to acquire a parcel of land immediately north of the existing (within existing stormwater and utility easements) to locate the emergency standby generator. The project was re-budgeted for 2017 to include land purchase as well as site improvements that will facilitate emergency access off of Midway Road by Utility maintenance vehicles.

F2 Building Chemical Storage Room Improvements

This CIP was initiated in 2017 for the intended purpose of rehabilitating the existing iron salt chemical storage room after 22 years of continuous use. It also incorporates improvements to the chemical feed system that will allow for precision chemical dosing necessary to consistently achieve future low-level phosphorus limits. The project bidding phase is scheduled for late summer 2017 with active construction forecasted for completion by March 1, 2018.

Digester Compressor Glycol System, WAS Pump Replacement, Effluent Pump Firm Capacity, and Aeration Blower Replacement

The 2017 Wastewater Treatment Plant Improvements Project involves equipment rehabilitation, replacement, and improvements to address immediate needs and long term reliability associated with four independent processes. The preliminary engineering phases throughout 2017 are focused on delivering a complete conditions assessment and project alternatives technical document. That document is to include observations, data, alternatives, costs, conclusions, and recommendations that will be used to consolidate four independent projects for streamlining purposes into a single construction project to be bid out in early 2018. Forecasted final construction completion is January 1, 2019.

WASTEWATER COLLECTION

Reconstructed / rehabilitated approximately 1.68 miles of sanitary sewer and adding 1.10 miles of new sewer. Completed the fifth/final year of a comprehensive flow monitoring project covering approximately 15% of the City's sanitary collection system, which helped identify and address areas of inflow/infiltration into our collection system. Developed policy language for replacement of laterals on private property to be implemented in 2018. Used the sewer televising program to identify and resolve several significant grease issues.

MAJOR 2018 OBJECTIVES

The Departments of Public Works and Utilities will work together to provide effective and efficient operation of the Wastewater Utility to: Provide treatment that meets or exceeds State and federal water guality standards that are established in the reissued April 1, 2017 WPDES permit. This permit includes a compliance schedule for reporting requirements within the 5-year permit term including reference to future more stringent discharge limits for effluent phosphorus and total suspended solids under NR 102, NR 217, and Lower Fox River Total Maximum Daily Load (TMDL) legislation. Continue to evaluate phosphorus loading sources and potential for source reduction, further investigate and refine existing treatment optimization opportunities, and research new treatment technologies capable of achieving future water quality based effluent limits for phosphorus Continue to engage and participate in Adaptive Management and Water Quality Trading opportunities that have the potential of meeting new phosphorus limits and reduction criteria set forth in the TMDL and NR 217. Provide the citizens of Appleton with efficient, safe, and cost-effective treatment of its residential, commercial, and industrial wastewaters Provide for both short-term and long-term facility planning and management to address community growth and increased wastewater treatment needs Optimize and maintain plant processes and capital assets to produce a high quality effluent, while maximizing biogas utilization and reducing overall energy consumption. Provide biosolids and compost product of high guality and in demand for a variety of beneficial uses while continuing to explore biosolids diversification opportunities. The following project completions will enhance longevity of wastewater treatment infrastructure: aeration blower replacement, effluent pump station rehabilitation, and lift station upgrades. Continue the clear water program to reduce inflow into wastewater system Complete the annual sewer cleaning program and identify areas of concern Promptly respond to emergency sewer backups Continue major interceptor rehabilitation to maintain the system at a level that will accommodate growth and increased wastewater needs Reduce the amount of inflow and infiltration into the sanitary sewer system Use City's sewer truck camera to identify problem areas and address them accordingly Continue to update the City sanitary sewer database Use our televising software to assist in the programming of sewer spot repairs, protruding taps and mineral deposits Update a Capacity, Management, Operations and Maintenance (CMOM) Plan to meet WisDNR requirements

| Program Revenues \$ 11,961,241 \$ 12,005,596 \$ 11,615,353 \$ 11,534,806 -0.699 Program Expenses | | | DEPA | RTMENT BUDG | GET SUMMARY | | | |
|--|-----------|---------------------------|---------------|---------------|---------------|---------------|---------------|----------|
| Program Revenues \$ 11,961,241 \$ 12,005,596 \$ 11,615,353 \$ 11,534,806 -0.696 Program Expenses | | Programs | Act | ual | | | | % |
| Program Expenses 5411 Utility Administration 741,943 249,548 264,520 266,409 288,644 9.125 5412 Finance Administration 4,732,755 4,709,778 5,271,627 5,271,627 5,029,876 -4.595 5422 Treatment 3,501,993 3,580,557 3,721,007 3,831,283 3,862,350 3.805 5423 Biosolids Management 554,053 587,180 779,572 783,821 679,240 -12.876 5425 Lift Stations 87,547 133,453 184,859 184,859 127,799 -30.875 5427 Collection Systems 898,399 736,302 837,224 931,145 753,166 -10.046 5431 Public Works Capital 548,563 386,226 3,484,804 4,167,736 2,235,551 -35.856 5432 Utility Capital 131,705 82,441 4,081,500 4,321,961 3,364,250 -17.576 Total Program Expenses \$11,196,958 \$10,465,485 \$18,625,113 \$19,758 | Unit | Title | 2015 | 2016 | Adopted 2017 | Amended 2017 | 2018 | Change * |
| 5411 Utility Administration 741,943 249,548 264,520 266,409 288,644 9.124 5412 Finance Administration 4,732,755 4,709,778 5,271,627 5,271,627 5,029,876 -4.599 5422 Treatment 3,501,993 3,580,557 3,721,007 3,831,283 3,862,350 3.800 5423 Biosolids Management 554,053 587,180 779,572 783,821 679,240 -12.875 5425 Lift Stations 87,547 133,453 184,859 184,859 127,799 -30.876 5427 Collection Systems 898,399 736,302 837,224 931,145 753,166 -10.045 5431 Public Works Capital 131,705 82,441 4,081,500 4,321,961 3,364,250 -17.576 Total Program Expenses \$11,196,958 \$10,465,485 \$18,625,113 \$19,758,841 \$16,340,876 -12.266 Expenses Comprised Of: | | | \$ 11,961,241 | \$ 12,005,596 | \$ 11,615,353 | \$ 11,615,353 | \$ 11,534,806 | -0.69% |
| 5412 Finance Administration 4,732,755 4,709,778 5,271,627 5,029,876 -4.594 5422 Treatment 3,501,993 3,580,557 3,721,007 3,831,283 3,862,350 3.804 5423 Biosolids Management 554,053 587,180 779,572 783,821 679,240 -12.874 5425 Lift Stations 87,547 133,453 184,859 184,859 127,799 -30.874 5427 Collection Systems 898,399 736,302 837,224 931,145 753,166 -10.044 5431 Public Works Capital 548,563 386,226 3,484,804 4,167,736 2,235,551 -35.856 5432 Utility Capital 131,705 82,441 4,081,500 4,321,961 3,364,250 -17.576 Total Program Expenses \$11,196,958 \$10,465,485 \$18,625,113 \$19,758,841 \$16,340,876 -12.266 Expenses Comprised Of: - - - - - - -46,845 \$18,625,113 \$19,75 | Р | | | | | | | |
| 5422 Treatment 3,501,993 3,580,557 3,721,007 3,831,283 3,862,350 3.805 5423 Biosolids Management 554,053 587,180 779,572 783,821 679,240 -12.876 5425 Lift Stations 87,547 133,453 184,859 184,859 127,799 -30.876 5427 Collection Systems 898,399 736,302 837,224 931,145 753,166 -10.046 5431 Public Works Capital 548,563 386,226 3,484,804 4,167,736 2,235,551 -35.856 5432 Utility Capital 131,705 82,441 4,081,500 4,321,961 3,364,250 -17.576 Total Program Expenses \$11,196,958 \$10,465,485 \$18,625,113 \$19,758,841 \$16,340,876 -12.266 Expenses Comprised Of: - | 5411 | Utility Administration | 741,943 | 249,548 | 264,520 | 266,409 | 288,644 | 9.12% |
| 5423 Biosolids Management 554,053 587,180 779,572 783,821 679,240 -12.876 5425 Lift Stations 87,547 133,453 184,859 184,859 127,799 -30.876 5427 Collection Systems 898,399 736,302 837,224 931,145 753,166 -10.046 5431 Public Works Capital 548,563 386,226 3,484,804 4,167,736 2,235,551 -35.856 5432 Utility Capital 131,705 82,441 4,081,500 4,321,961 3,364,250 -17.576 Total Program Expenses \$ 11,196,958 \$ 10,465,485 \$ 18,625,113 \$ 19,758,841 \$ 16,340,876 -12.266 Expenses Comprised Of: - | 5412 | Finance Administration | 4,732,755 | 4,709,778 | 5,271,627 | 5,271,627 | 5,029,876 | -4.59% |
| 5425 Lift Stations 87,547 133,453 184,859 184,859 127,799 -30.876 5427 Collection Systems 898,399 736,302 837,224 931,145 753,166 -10.046 5431 Public Works Capital 548,563 386,226 3,484,804 4,167,736 2,235,551 -35.856 5432 Utility Capital 131,705 82,441 4,081,500 4,321,961 3,364,250 -17.576 Total Program Expenses \$ 11,196,958 \$ 10,465,485 \$ 18,625,113 \$ 19,758,841 \$ 16,340,876 -12.266 Expenses Comprised Of: - < | 5422 | Treatment | 3,501,993 | 3,580,557 | 3,721,007 | 3,831,283 | 3,862,350 | 3.80% |
| 5427 Collection Systems 898,399 736,302 837,224 931,145 753,166 -10.044 5431 Public Works Capital 548,563 386,226 3,484,804 4,167,736 2,235,551 -35.856 5432 Utility Capital 131,705 82,441 4,081,500 4,321,961 3,364,250 -17.576 Total Program Expenses \$ 11,196,958 \$ 10,465,485 \$ 18,625,113 \$ 19,758,841 \$ 16,340,876 -12.266 Expenses Comprised Of: Personnel 2,121,562 2,512,687 2,514,892 2,524,598 2,594,783 3.186 Administrative Expense 5,025,608 4,281,424 5,036,522 5,036,522 4,792,672 -4.844 Supplies & Materials 366,776 396,408 460,805 460,805 584,550 26.856 Purchased Services 2,568,334 1,659,757 4,376,510 4,646,300 2,297,885 -47.506 Utilities 1,109,060 1,041,989 1,093,031 1,089,815 -0.296 Repair & Maintenance <td< td=""><td>5423</td><td>Biosolids Management</td><td>554,053</td><td>587,180</td><td>779,572</td><td>783,821</td><td>679,240</td><td>-12.87%</td></td<> | 5423 | Biosolids Management | 554,053 | 587,180 | 779,572 | 783,821 | 679,240 | -12.87% |
| 5431 Public Works Capital 548,563 386,226 3,484,804 4,167,736 2,235,551 -35.856 5432 Utility Capital 131,705 82,441 4,081,500 4,321,961 3,364,250 -17.576 Total Program Expenses \$ 11,196,958 \$ 10,465,485 \$ 18,625,113 \$ 19,758,841 \$ 16,340,876 -12.266 Expenses Comprised Of: Personnel 2,121,562 2,512,687 2,514,892 2,524,598 2,594,783 3.186 Administrative Expense 5,025,608 4,281,424 5,036,522 5,036,522 4,792,672 -4.844 Supplies & Materials 366,776 396,408 460,805 460,805 584,550 26.856 Purchased Services 2,568,334 1,659,757 4,376,510 4,646,300 2,297,885 -47.506 Utilities 1,109,060 1,041,989 1,093,031 1,089,815 -0.296 Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.926 Capital Expenditures (754,134) | 5425 | Lift Stations | 87,547 | 133,453 | 184,859 | 184,859 | 127,799 | -30.87% |
| 5432 Utility Capital 131,705 82,441 4,081,500 4,321,961 3,364,250 -17.576 Total Program Expenses \$ 11,196,958 \$ 10,465,485 \$ 18,625,113 \$ 19,758,841 \$ 16,340,876 -12.266 Expenses Comprised Of: Personnel 2,121,562 2,512,687 2,514,892 2,524,598 2,594,783 3.186 Administrative Expense 5,025,608 4,281,424 5,036,522 5,036,522 4,792,672 -4.844 Supplies & Materials 366,776 396,408 460,805 460,805 584,550 26.857 Purchased Services 2,568,334 1,659,757 4,376,510 4,646,300 2,297,885 -47.506 Utilities 1,109,060 1,041,989 1,093,031 1,089,815 -0.296 Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.926 Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.196 | 5427 | Collection Systems | 898,399 | 736,302 | 837,224 | 931,145 | 753,166 | -10.04% |
| Total Program Expenses \$ 11,196,958 \$ 10,465,485 \$ 18,625,113 \$ 19,758,841 \$ 16,340,876 -12,266 Expenses Comprised Of: Personnel 2,121,562 2,512,687 2,514,892 2,524,598 2,594,783 3.186 Administrative Expense 5,025,608 4,281,424 5,036,522 5,036,522 4,792,672 -4.846 Supplies & Materials 366,776 396,408 460,805 460,805 584,550 26.856 Purchased Services 2,568,334 1,659,757 4,376,510 4,646,300 2,297,885 -47.506 Utilities 1,109,060 1,041,989 1,093,031 1,089,815 -0.296 Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.926 Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.196 | 5431 | Public Works Capital | 548,563 | 386,226 | 3,484,804 | 4,167,736 | 2,235,551 | -35.85% |
| Expenses Comprised Of: Personnel 2,121,562 2,512,687 2,514,892 2,524,598 2,594,783 3.186 Administrative Expense 5,025,608 4,281,424 5,036,522 5,036,522 4,792,672 -4.846 Supplies & Materials 366,776 396,408 460,805 460,805 584,550 26.856 Purchased Services 2,568,334 1,659,757 4,376,510 4,646,300 2,297,885 -47.506 Utilities 1,109,060 1,041,989 1,093,031 1,089,815 -0.296 Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.926 Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.196 | 5432 | Utility Capital | 131,705 | 82,441 | 4,081,500 | 4,321,961 | 3,364,250 | -17.57% |
| Personnel 2,121,562 2,512,687 2,514,892 2,524,598 2,594,783 3.186 Administrative Expense 5,025,608 4,281,424 5,036,522 5,036,522 4,792,672 -4.846 Supplies & Materials 366,776 396,408 460,805 460,805 584,550 26.856 Purchased Services 2,568,334 1,659,757 4,376,510 4,646,300 2,297,885 -47.506 Utilities 1,109,060 1,041,989 1,093,031 1,089,815 -0.296 Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.926 Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.196 | Tota | I Program Expenses | \$ 11,196,958 | \$ 10,465,485 | \$ 18,625,113 | \$ 19,758,841 | \$ 16,340,876 | -12.26% |
| Administrative Expense 5,025,608 4,281,424 5,036,522 5,036,522 4,792,672 -4.844 Supplies & Materials 366,776 396,408 460,805 460,805 584,550 26.856 Purchased Services 2,568,334 1,659,757 4,376,510 4,646,300 2,297,885 -47.506 Utilities 1,109,060 1,041,989 1,093,031 1,089,815 -0.296 Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.926 Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.196 | Expens | ses Comprised Of: | | | | | | |
| Supplies & Materials 366,776 396,408 460,805 460,805 584,550 26.856 Purchased Services 2,568,334 1,659,757 4,376,510 4,646,300 2,297,885 -47.500 Utilities 1,109,060 1,041,989 1,093,031 1,093,031 1,089,815 -0.296 Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.926 Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.196 | Personr | nel | 2,121,562 | 2,512,687 | 2,514,892 | 2,524,598 | 2,594,783 | 3.18% |
| Purchased Services 2,568,334 1,659,757 4,376,510 4,646,300 2,297,885 -47.50° Utilities 1,109,060 1,041,989 1,093,031 1,093,031 1,089,815 -0.29° Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.92° Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.19° Full Time Equivalent Staff: Equivalent Staff | Adminis | strative Expense | 5,025,608 | 4,281,424 | 5,036,522 | 5,036,522 | 4,792,672 | -4.84% |
| Utilities 1,109,060 1,041,989 1,093,031 1,093,031 1,089,815 -0.296 Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.926 Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.196 Full Time Equivalent Staff: | Supplie | s & Materials | 366,776 | 396,408 | 460,805 | 460,805 | 584,550 | 26.85% |
| Repair & Maintenance 759,752 703,223 697,448 697,448 677,095 -2.925 Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.195 Full Time Equivalent Staff: | Purchas | sed Services | 2,568,334 | 1,659,757 | 4,376,510 | 4,646,300 | 2,297,885 | -47.50% |
| Capital Expenditures (754,134) (130,003) 4,445,905 5,300,137 4,304,076 -3.199 Full Time Equivalent Staff: | Utilities | | 1,109,060 | 1,041,989 | 1,093,031 | 1,093,031 | 1,089,815 | -0.29% |
| Full Time Equivalent Staff: | Repair a | & Maintenance | 759,752 | 703,223 | 697,448 | 697,448 | 677,095 | -2.92% |
| | Capital | Expenditures | (754,134) | (130,003) | 4,445,905 | 5,300,137 | 4,304,076 | -3.19% |
| | Full Tin | ne Equivalent Staff: | | | | | | |
| Personner anocated to programs 20.71 26.39 28.41 28.41 28.41 28.71 | Personr | nel allocated to programs | 28.71 | 28.39 | 28.41 | 28.41 | 28.71 | |

* % change from prior year adopted budget

Utility Administration

Business Unit 5411

PROGRAM MISSION

For the benefit of the Wastewater Utility staff, managers will administer the Wastewater facility, while supporting and mentoring operations, biosolids, laboratory, and maintenance staff to ensure that all administrative business functions are completed accurately, timely, and professionally.

Link to City Key Strategies:

PROGRAM NARRATIVE

Implements Key Strategies # 4: "Continually assess trends affecting the community and proactively respond", and # 6: "Create opportunities and learn from successes and failures".

Objectives:

Continue to comply with all statutory requirements, filing all reports accurately and on a timely basis Continue to provide support in developing capital improvement projects, budgets, and process analysis Identify cost efficient technologies to assist in taking a proactive approach to administration Maintain a safe and healthy work environment for divisional employees Provide leadership in the coordination of community relations

Major changes in Revenue, Expenditures or Programs:

As part of the ERP (Enterprise Resource Planning) project the Laboratory & Pretreatment business unit (5424) was combined with the Treatment business unit (5422). Revenue and lab license fees that were previously recorded in the business unit and have been consolidated into the Administration business unit.

Special Hauled Waste revenue reflects a 3% rate increase that is effective January 1, 2018, was approved July 2017.

| | Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
|-----------------------------------|-------------|-------------|-------------|----------------|-------------|
| Client Benefits/Impacts | | | | | |
| Safe work environment | | | | | |
| # of workers comp. claims / year | 0 | 2 | 0 | 0 | (|
| # of first aid entries per year | 13 | 10 | 0 | 0 | (|
| Strategic Outcomes | | | | | |
| Effective use of budgeted funds | | | | | |
| % of operational budget obligated | 88% | 93% | 100% | 100% | 100 |
| Trained Staff | | | | , | |
| % of staff adequately trained | 74% | 95% | 100% | 100% | 100 |
| Average # of hours training | 11/0 | 00/0 | 10070 | 10070 | |
| per employee | 16 | 11 | 25 | 25 | 2 |
| | | | | | - |
| Work Process Outputs | | | | | |
| Government reports prepared | | | | | |
| # reports filed: | | | | | |
| Compliance Report (eCMAR) | 1 | 1 | 1 | 1 | |
| Biosolids Annual Report | 1 | 1 | 1 | 1 | |
| Pretreatm't Report | 2 | 2 | 2 | 2 | |
| Discharge Report (eDMR) | 12 | 12 | 12 | 12 | 1 |

Utility Administration

Business Unit 5411

PROGRAM BUDGET SUMMARY

| | | Ac | tual | | Budget | | | Budget | | | |
|-----------------------------------|----|------------|------|------------|--------|-------------|----|-------------|----|------------|--|
| Description | | 2015 | | 2016 | Ac | dopted 2017 | An | nended 2017 | | 2018 | |
| Revenues | | | | | | | | | | | |
| 4710 Interest on Investments | \$ | 180,452 | \$ | 142.454 | \$ | 350,000 | \$ | 350,000 | \$ | 250,000 | |
| 4730 Interest - Deferred Specials | | 20,275 | • | 14,688 | | 20,000 | | 20,000 | | 10,000 | |
| 4801 Charges for Service - Nontax | | 834 | | - | | - | | | | - | |
| 4810 Sewer Service - Residential | | 3,953,505 | | 3,946,452 | | 3,933,000 | | 3,933,000 | | 3,930,000 | |
| 4811 Sewer Service - Commercial | | 936,935 | | 957,745 | | 930,000 | | 930,000 | | 960,000 | |
| 4812 Sewer Service - Industrial | | 4,147,099 | | 3,853,500 | | 4,215,000 | | 4,215,000 | | 3,780,000 | |
| 4813 Sewer Service - Municipal | | 272,186 | | 281,297 | | 275,000 | | 275,000 | | 275,000 | |
| 4814 Industrial Pre-Treatment | | 5,242 | | 5,828 | | 5,000 | | 5,000 | | 5,000 | |
| 4815 Sewer Service - Multi-Family | | 302,454 | | 313,250 | | 305,000 | | 305,000 | | 330,000 | |
| 5001 Fees & Commissions | | 7,370 | | 7,131 | | 7,500 | | 7,500 | | 7,500 | |
| 5005 Sale of City Property - Tax | | 3,634 | | 190 | | - | | - | | - | |
| 5010 Misc. Revenue - Nontax | | 8,604 | | 10,142 | | 6,000 | | 6,000 | | 8,000 | |
| 5011 Misc. Revenue - Tax | | 8,147 | | 2,848 | | - | | - | | 3,000 | |
| 5021 Capital Contributions | | 608,884 | | 292,031 | | - | | - | | 156,550 | |
| 5035 Other Reimbursements | | 1,717 | | 2,420 | | 1,800 | | 1,800 | | 2,500 | |
| 5071 Customer Penalty | | 38,613 | | 39,109 | | 39,000 | | 39,000 | | 39,000 | |
| 5084 Special Hauled Waste | | 1,463,154 | | 2,161,440 | | 1,500,000 | | 1,500,000 | | 1,750,000 | |
| Total Revenue | \$ | 11,959,105 | \$ | 12,030,525 | \$ | 11,587,300 | \$ | 11,587,300 | \$ | 11,506,550 | |
| Expenses | | | | | | | | | | | |
| 6101 Regular Salaries | \$ | 136,068 | \$ | 143,558 | \$ | 150,455 | \$ | 152,100 | \$ | 161,602 | |
| 6104 Call Time | Ψ | 13 | Ψ | 14 | Ψ | | Ψ | | Ψ | | |
| 6105 Overtime | | 105 | | 329 | | 2,327 | | 2,327 | | 2,393 | |
| 6108 Part-Time | | 5,726 | | 1,663 | | 1,472 | | 1,472 | | 2,362 | |
| 6150 Fringes | | 40,825 | | 45,318 | | 47,811 | | 48,055 | | 53,320 | |
| 6201 Training\Conferences | | 4,188 | | 9,000 | | 7,780 | | 7,780 | | 7,500 | |
| 6301 Office Supplies | | 3,712 | | 2,773 | | 3,000 | | 3,000 | | 3,000 | |
| 6302 Subscriptions | | 74 | | 267 | | 100 | | 100 | | 100 | |
| 6303 Memberships & Licenses | | 2,858 | | 2,139 | | 4,055 | | 4,055 | | 7,040 | |
| 6304 Postage\Freight | | 3,160 | | 568 | | 2,500 | | 2,500 | | 2,500 | |
| 6305 Awards & Recognition | | 65 | | 350 | | 300 | | 300 | | 300 | |
| 6306 Janitorial Supplies | | 6,540 | | 5,929 | | 7,000 | | 7,000 | | 6,500 | |
| 6307 Food & Provisions | | 601 | | 400 | | 400 | | 400 | | 400 | |
| 6320 Printing & Reproduction | | 1,909 | | 2,845 | | 3,000 | | 3,000 | | 3,000 | |
| 6321 Clothing | | 584 | | 145 | | - | | - | | - | |
| 6323 Safety Supplies | | 8,493 | | 6,990 | | 5,500 | | 5,500 | | 5,500 | |
| 6327 Misc. Equipment | | 889 | | 4,309 | | 1,000 | | 1,000 | | 5,000 | |
| 6407 Collection Services | | 3,350 | | 2,965 | | 3,400 | | 3,400 | | 3,750 | |
| 6408 Contractor Fees | | 3,555 | | 1,814 | | 3,750 | | 3,750 | | 3,750 | |
| 6411 Temporary Help | | 276 | | - | | - | | - | | - | |
| 6412 Advertising/Publications | | 2,494 | | 56 | | 1,500 | | 1,500 | | 1,500 | |
| 6413 Utilities | | 13,428 | | 14,683 | | 16,380 | | 16,380 | | 15,920 | |
| 6418 Equipment Repairs & Maint | | 232 | | 47 | | - | | - | | - | |
| 6425 CEA Equip. Rental | | 2,798 | | 3,386 | | 2,790 | | 2,790 | | 3,207 | |
| 7915 Trans Out - Stormwater | | 500,000 | | - | | - | | - | | - | |
| Total Expense | \$ | 741,943 | \$ | 249,548 | \$ | 264,520 | \$ | 266,409 | \$ | 288,644 | |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

None

Finance Administration

Business Unit 5412

PROGRAM MISSION

Customer billing and financial system maintenance to be in compliance with generally accepted accounting principles (GAAP).

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies # 2: "Encourage active community participation and involvement", # 4: "Continually assess trends affecting the community and proactively respond", and # 6: "Create opportunities and learn from successes and failures".

Objectives:

Administrative overhead costs such as interest, depreciation, insurance and other miscellaneous expenses are accounted for in this program.

Major changes in Revenue, Expenditures or Programs:

Meter expense is increasing due to the replacement of the Badger radio read system. The new Sensus meter system value is more than the system that it is replacing, thus increasing the allocation of meter related costs to the Wastewater Utility from the Water Utility. The Wastewater Utility shares the expense of meters because the billing consumption for sewer service is also calculated using the meter system.

The Insurance increase in 2017 and 2018 is due to the allocation of costs related to the Fox River PCB cleanup litigation (not covered by the City's insurance carrier) to the Wastewater Utility and to a surcharge to all departments to address the deficit fund balance in the Risk Management fund arising from several years of unusually high workers' compensation costs. Since the Fox River cleanup litigation has been resolved (please refer to the Risk Management budget), we expect costs related to it to taper off.

| PERFORMANCE INDICATORS | | | | | | | |
|------------------------|--------------------------------|--|--|---|--|--|--|
| Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 | | | |
| | | | | | | | |
| expenses | | | | | | | |
| - | | | | | | | |
| 50% | 75% | 92% | 83% | 92% | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 0 | 0 | 0 | 0 | (| | | |
| | | | | | | | |
| 113 384 | 113 932 | 114 000 | 114 000 | 114,000 | | | |
| | , | ., | ., | , | | | |
| | Actual 2015 expenses 50% | Actual 2015 Actual 2016 expenses 50% 75% 0 0 0 | Actual 2015 Actual 2016 Target 2017 expenses 50% 75% 92% 0 0 0 0 | Actual 2015 Actual 2016 Target 2017 Projected 2017 expenses 50% 75% 92% 83% 0 0 0 0 0 | | | |

Finance Administration

Business Unit 5412

PROGRAM BUDGET SUMMARY

| | | Act | tual | | Budge | | | Budget | t | | |
|----------------------------------|----|-----------|------|-----------|-------|-------------|----|-------------|----|-----------|--|
| Description | | 2015 | | 2016 | A | dopted 2017 | An | nended 2017 | | 2018 | |
| Revenues | | | | | | | | | | | |
| 5006 Gain (Loss) on Asset Disp. | \$ | (31,185) | \$ | (57,030) | \$ | - | \$ | - | \$ | - | |
| 5086 Premium on Debt Issue | | 19,438 | | 18,773 | | 18,053 | | 18,053 | | 17,256 | |
| | \$ | (11,747) | \$ | (38,257) | \$ | 18,053 | \$ | 18,053 | \$ | 17,256 | |
| Expenses | | | | | | | | | | | |
| 6101 Regular Salaries | \$ | 103,820 | \$ | 105.081 | \$ | 114,448 | \$ | 114,448 | \$ | 114,040 | |
| 6105 Overtime | • | 318 | · | 298 | Ċ | - | Ċ | - | Ċ | - | |
| 6150 Fringes | | 28,614 | | 249,399 | | 43,417 | | 43,417 | | 48,589 | |
| 6304 Postage\Freight | | 20,566 | | 18,248 | | 22,000 | | 22,000 | | 24,000 | |
| 6320 Printing & Reproduction | | 3,030 | | 2,392 | | 3,300 | | 3,300 | | 3,300 | |
| 6401 Accounting/Audit | | 11,317 | | 11,140 | | 12,020 | | 12,020 | | 9,360 | |
| 6403 Bank Services | | 20,972 | | 20,170 | | 21,500 | | 21,500 | | 21,500 | |
| 6437 Billing Services | | 60,290 | | 61,721 | | 66,800 | | 66,800 | | 69,000 | |
| 6501 Insurance | | 127,697 | | 137,808 | | 265,980 | | 265,980 | | 265,812 | |
| 6599 Other Contracts/Obligations | | 228 | | - | | - | | - | | - | |
| 6601 Depreciation Expense | | 3,248,192 | | 2,928,395 | | 3,395,000 | | 3,395,000 | | 3,200,000 | |
| 6623 Uncollectable Accounts | | 3,140 | | 2,165 | | 5,500 | | 5,500 | | 4,500 | |
| 6631 Meter Expense | | 437,434 | | 514,361 | | 650,199 | | 650,199 | | 630,000 | |
| 6720 Interest Payments | | 549,687 | | 541,150 | | 554,013 | | 554,013 | | 522,325 | |
| 7911 Trans Out - General Fund | | 117,450 | | 117,450 | | 117,450 | | 117,450 | | 117,450 | |
| Total Expense | \$ | 4,732,755 | \$ | 4,709,778 | \$ | 5,271,627 | \$ | 5,271,627 | \$ | 5,029,876 | |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| Postage/Freight City Service Invoice postage City Service Invoice folding/inserting | Meter Expense\$ 22,500Allocation from Water1,500Meter depreciation\$ 24,000Meter payment in lieu of tax | \$ 108,500 230,000 69,000 |
|--|---|------------------------------------|
| Bank Services Banking & Investment Fees | Return on investment in net fixed assets - meters \$ 21,500 \$ 21,500 | \$ 222,500 630,000 |
| Billing Services Sewer charges from other sanitation districts for Appleton residences served | \$ 69,000 \$ 69,000 | |

Treatment

Business Unit 5422

PROGRAM MISSION

For the benefit of the community, we will provide essential services to process wastewater so that an effluent suitable for discharge to the Fox River and a biosolids component suitable for agriculture beneficial reuse is achieved.

PROGRAM NARRATIVE

Link to City Key Strategies:

Implements Key Strategies # 4: "Continually assess trends affecting the community and proactively respond", and # 6: "Create opportunities and learn from successes and failures".

Objectives:

Meet or exceed all State and federal regulatory agency requirements Monitor and evaluate all operating systems to ensure the most efficient and cost-effective treatment methods are being applied to current operations, and to support future special revenue programs Maintain an effective relationship with all City departments, public officials, and the community

Major changes in Revenue, Expenditures or Programs:

The AWWTP was reissued a WPDES permit with an effective start date of April 1, 2017. The 2018 treatment budget reflects the purchase of additional iron salts (ferric chloride) to facilitate ongoing full-scale treatment evaluations under higher chemical dosage regimens to determine the ability to consistently and reliably achieve low-level phosphorus criteria established by TMDL legislation and Wisconsin Administrative Code NR 217.

As part of the ERP (Enterprise Resource Planning) project the Laboratory & Pretreatment business unit (5424) was combined with the Treatment business unit (5422). Repair parts expense reflects the costs for parts and material used to repair and maintain equipment by staff; the expense for parts was previously included in the budget in the equipment repair and maintenance line item. The lab fees expense was previously part of the contractor fees budget.

Overtime budget reflects an increase to allow for 15 minutes of overtime at each shift change to allow for communication between staff.

| | | ICE INDICATO | | | |
|---|-----------------|--------------|-------------|----------------|--------------|
| | Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
| Client Benefits/Impacts | | | | | |
| Environmental Safety | | | | | |
| # of Discharge Monthly Report (DMR) | | | | | |
| permit exceedance/violations | 0 | 0 | 0 | 0 | |
| Essential services provided | | | | | |
| # of gallons influent treated per year | 4,228 MG | 4,694 MG | 4,500 MG | 4,500 MG | 4,500 MG |
| Environmental safety | | | | | |
| # of industrial clients | 10 | 10 | 10 | 10 | 10 |
| # of clients in significant | | | | | |
| non-compliance | 0 | 0 | 0 | 0 | C |
| Increase revenue sources | | | | | |
| \$ received from other sources | \$ 1,473,124 | \$ 2,161,440 | \$ 750,000 | | \$ 1,750,000 |
| # of tons of hauled waste received | - | - | 205,000 | 270,000 | 205,000 |
| Strategic Outcomes | | | | | |
| High Wastewater treatment standards | | | | | |
| CMAR Grade for ten categories | А | А | А | А | A |
| Overall CMAR GPA | 3.73 | 3.73 | 4.00 | | 4.00 |
| # of categorical grades of C or below | 0.70 | 0.70 | 4.00 | •• | 4.00 |
| Public Outreach Initiatives | v | v | v | | ` |
| # of pollution minimization initiatives | 4 | 4 | 4 | 4 | |
| | | | | | |
| Work Process Outputs | | | | | |
| Efficient plant operation | | | | | |
| Average # of days to close preventive | | | | | |
| work orders | 59 | 59 | 35 | 36 | 36 |
| Record maintenance - Discharge Monitori | ng Report (DMP | i) | | | |
| # DMR - QA/QC samples completed | 9,936 | 10,747 | 6,125 | 10,775 | 10,775 |
| Improve treatment processes | | | | | |
| # process samples analyzed per yr* | 4,632 | 4,346 | 4,900 | 4,500 | 4,500 |
| Maintain industrial pretreatment compliance | ce | | | | |
| # of inspections | 10 | 10 | 10 | 10 | 1(|
| # of sampling events | 20 | 20 | 20 | 20 | 20 |
| # of billable samples for other | | | | | |
| City departments | 572 | 503 | 550 | 350 | 35 |
| * includes all compliance, process and b | oilling samples | | | | |

Treatment

Business Unit 5422

PROGRAM BUDGET SUMMARY

| | | Act | tual | | | | | Budget | |
|--|----------|--|--------------|--|----------------------|--|-----------------|--|--|
| Description | | 2015 | | 2016 | Ad | opted 2017 | Am | ended 2017 | 2018 |
| Expenses 6101 Regular Salaries 6104 Call Time 6105 Overtime 6108 Part-Time | \$ | 884,544 1,613 54,349 7,530 | \$ | 983,893 2,527 60,303 7,632 | \$ | 997,469 3,061 63,577 9,082 | \$ | 1,003,281 3,061 63,577 9,082 | \$ 994,788 3,106 74,612 9,398 |
| 6150 Fringes 6309 Shop Supplies & Tools 6310 Chemicals 6321 Clothing 6322 Gas Purchases 6324 Medical / Lab Supplies 6326 Repair Parts | | 332,515 28,068 251,624 5,264 6,247 20,578 | | 388,175 32,384 230,936 5,185 5,766 20,239 | | 374,821 42,500 315,000 5,905 8,000 20,000 | | 375,685 42,500 315,000 5,905 8,000 20,000 | 408,640 28,000 335,000 5,500 8,250 21,000 110,000 |
| 6327 Miscellaneous Equipment 6402 Legal Fees 6404 Consulting Services 6408 Contractor Fees 6413 Utilities 6415 Tipping Fees 6416 Building Repairs & Maint. | | 11,261 28,931 40,257 117,475 1,050,726 3,292 | | 47,711 26,729 5,750 180,054 978,123 2,761 | | 13,200 29,700 80,000 124,900 1,026,915 3,500 | | 13,200 29,700 180,000 128,500 1,026,915 3,500 | 24,000 29,250 38,000 169,750 1,021,915 3,500 35,000 |
| 6418 Equipment Repairs & Maint 6420 Facilities Charges 6424 Software Support 6425 CEA Equip. Rental 6432 Lab Fees 6440 Snow Removal Services 6454 Grounds Repair & Maint 6599 Other Contracts/Obligations | | 169,073 468,466 16,460 18,731 1,114 3,401 9,343 8,681 | | 203,138 379,065 12,977 18,448 1,139 2,950 5,286 7,211 | | 102,000 448,221 14,300 16,916 2,000 3,500 7,500 8,940 | | 102,000 448,221 14,300 16,916 2,000 3,500 7,500 8,940 | 30,500 446,045 14,300 19,821 15,000 3,500 7,500 5,975 |
| 6899 Other Capital Outlay Total Expense | \$ | (37,550) 3,501,993 | \$ | (27,825) 3,580,557 | \$ | 3,721,007 | \$ | 3,831,283 | \$ 3,862,350 |
| DETAILED SUMMARY OF 2018 PROPO | SED | • • | UR | | | | * | | |
| | | | | | - | | | | |
| Legal Fees DNR Fees | \$ \$ | 29,250 29,250 | lr C B | <u>emicals</u> on salts OAF polymer BFP coagulan | | | \$ | 120,000 25,000 120,000 | |
| <u>Contractor Fees</u> Cogen maintenance Pipe insulation replacement Painting of process piping Well abandonment | \$ | 3,000 7,500 30,000 5.000 | S | Sodium hypoc Sodium bisulfi Other chemica | te | rite | \$ | 32,000 32,000 6,000 335,000 | |
| Struvite removal Grit removal Safety inspections Lab equipment inspections DAF component replacement | \$ | 10,000 3,250 8,000 3,000 100,000 169,750 | Ċ | uipment Rep Compressor re ab equipmer Generator ma Repair service | epa it re inte | irs pairs nance | nce \$ \$ | 2,500 1,500 1,500 25,000 30,500 | |
| <u>Consulting Services</u> Filtrate line review Air compressor study Concrete repairs on tanks Miscellaneous engineering studies | \$ | 15,000 7,500 8,000 7,500 38,000 | | op Supplies & Shop supplies Batteries Supply bin pat Small hand to | rts | ools | \$ | 5,000 2,000 15,000 6,000 28,000 | |
| Repair Parts Pumps & Motors Valves, piping and bearings Inventory management | \$ | 50,000 40,000 20,000 110,000 | S F | scellaneous E CADA comp ladar level in ab equipmer | one stru | nts | \$ | 2,000 13,000 9,000 24,000 | |
| Building Repairs & Maintenance Receiving Station concrete | \$ \$ | 35,000 35,000 | - | | | | | | |

Biosolids Management

Business Unit 5423

PROGRAM MISSION

For the benefit of the ratepayers and the agricultural community, we will research and implement cost-effective recycling so that we accomplish beneficial reuse of biosolids produced during wastewater treatment.

Link to City Key Strategies:

PROGRAM NARRATIVE

Implements Key Strategy # 2: "Encourage active community participation and involvement".

Objectives:

The Biosolids Management Program implements storage and final disposition strategies for the biosolids produced in the wastewater treatment process. Program implementation must meet all State and federal standards applicable to the generation and beneficial use of municipal treatment plant biosolids. In addition to regulatory compliance, the program relies on a strong interface with regional authorities and the agricultural community to facilitate land application and composting of biosolids for beneficial use.

Major changes in Revenue, Expenditures or Programs:

The CIP to evaluate the feasibility of local composting of biosolids with leaves and ground brush was completed in 2012. The goal of the project, now transitioned to program, is to diversify the current biosolids management program by creating a cost effective and sustainable alternative beneficial use that complements traditional agricultural land application. A reliable compost outlet would alleviate AWWTP 180-day storage deficiencies by allowing for off-site storage through compost processing. Viable markets remain a primary focus as compost use demonstration projects are pursued to establish a baseline for compost demand. Other objectives include marketing the program and educating the general public within the greater Fox Cities region. This information is pivotal to determine future program viability. On April 1, 2017 the Biosolids Composting Facility was permitted as part of the AWWTP's Wisconsin Pollutant Discharge Elimination System (WPDES) permit. The AWWTP will now formally be able to recognize the compost processing facility located at the Outgagmie County Landfill as part of the 180-day biosolids storage requirement. The current compost facility lease with Outagamie County expires in April 2022 which parallels the WPDES permit term.

The increase in contractor fees are reflective of the increase in the contracted biosolids hauling rates beginning in 2018. The budget also reflects additional land application costs resulting from the escalation in biosolids production observed since 2015.

Miscellaneous equipment expense is to purchase compost covers. Lab Fee expense for testing of biosolids, compost and soils was previously part of the Laboratory & Pretreatment business unit and is now included in the Biosolids business unit.

| PERFORMANCE INDICATORS | | | | | | | | | | | |
|-----------------------------------|--------------------|-------------|--------------------|----------------|--------------------|--|--|--|--|--|--|
| | <u>Actual 2015</u> | Actual 2016 | <u>Target 2017</u> | Projected 2017 | <u>Target 2018</u> | | | | | | |
| Client Benefits/Impacts | | | | | | | | | | | |
| Environmental Safety | | | | | | | | | | | |
| Biosolids Applications # of sites | | | | | | | | | | | |
| with nitrogen loading exceedances | 0 | 0 | 0 | 0 | 0 | | | | | | |
| with metal(s) loading exceedances | 0 | 0 | 0 | | 0 | | | | | | |
| Strategic Outcomes | | | | | | | | | | | |
| Beneficial Re-use | | | | | | | | | | | |
| Wet tons applied | 20,936 | 22,444 | 23,000 | 21,750 | 23,000 | | | | | | |
| Wet tons landfilled | 0 | , 0 | 0 | 0 | 0 | | | | | | |
| Wet tons composted | 2,496 | 2,246 | 2,500 | 1,250 | 3,750 | | | | | | |
| Work Process Outputs | | | | | | | | | | | |
| Biosolids production and storage | | | | | | | | | | | |
| Tons of biosolids produced | 25,176 | 25,292 | 26,000 | 23,000 | 26.000 | | | | | | |
| CMAR Compliance | 20,170 | _0,_0L | 20,000 | _0,000 | 20,000 | | | | | | |
| # of site monitorings completed | 49 | 42 | 24 | 24 | 40 | | | | | | |
| | | 74 | 2 7 | L T | 40 | | | | | | |

Biosolids Management

Business Unit 5423

PROGRAM BUDGET SUMMARY

| | Ac | tual | | | | E | Budget | | |
|----------------------------------|---------------|------|---------|----|--------------|----|--------------|----|---------|
| Description | 2015 | | 2016 | Ad | Adopted 2017 | | Amended 2017 | | 2018 |
| Expenses | | | | | | | | | |
| 6101 Regular Salaries | \$ 63,558 | \$ | 71,044 | \$ | 70,355 | \$ | 71,079 | \$ | 71,548 |
| 6104 Call Time | 155 | | 239 | | - | | - | | |
| 6105 Overtime | 1,648 | | 1,941 | | 2,573 | | 2,573 | | 2,598 |
| 6108 Part Time | 634 | | 531 | | - | | - | | |
| 6150 Fringes | 24,297 | | 28,943 | | 25,430 | | 25,538 | | 26,842 |
| 6316 Other Misc Supplies | - | | - | | - | | - | | 1,000 |
| 6322 Gas Purchases | 1,939 | | 2,593 | | 2,150 | | 2,150 | | 150 |
| 6327 Miscellaneous Equipment | 167 | | 306 | | - | | - | | 10,000 |
| 6404 Consulting Services | - | | 12,633 | | 100,000 | | 103,417 | | |
| 6408 Contractor Fees | 422,200 | | 413,821 | | 516,500 | | 516,500 | | 480,000 |
| 6413 Utilities | 313 | | 309 | | 450 | | 450 | | 450 |
| 6416 Building Repair & Maint | - | | - | | - | | - | | 10,000 |
| 6425 CEA Equip. Rental | 17,321 | | 16,842 | | 17,114 | | 17,114 | | 18,602 |
| 6432 Lab Fees | - | | - | | - | | - | | 10,050 |
| 6599 Other Contracts/Obligations | 21,821 | | 37,978 | | 45,000 | | 45,000 | | 48,000 |
| Total Expense | \$ 554,053 | \$ | 587,180 | \$ | 779,572 | \$ | 783,821 | \$ | 679,240 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| Contractor Fees | |
|------------------------------------|---------------|
| Compost pad processing | 80,000 |
| Biosolids transport / application | 375,000 |
| Biosolids incorporation | 25,000 |
| | \$ 480,000 |
| | |
| Other Contracts/Obligations | |
| City staff hauling to compost site | \$ 19,000 |
| City staff brush handling | 21,000 |
| Pad maintenance by City staff | 8,000 |
| | \$ 48,000 |
| | |

Business Unit 5425

Lift Stations

PROGRAM MISSION

For the benefit of the Appleton sewer consumers, we will operate, monitor, and maintain the lift stations throughout the City to ensure consistent and reliable conveyance of sewage to the wastewater treatment facility.

Link to City Key Strategies:

PROGRAM NARRATIVE

Implements Key Strategies # 4: "Continually assess trends affecting the community and proactively respond" and # 6: "Create opportunities and learn from successes and failures".

Objectives:

Convey the city's industrial, commercial, and residential wastewater that cannot flow by gravity to one of the 14 lift stations where sewage is pumped to the wastewater plant for processing.

Major changes in Revenue, Expenditures or Programs:

The new Spartan Drive lift station will be placed into service late in 2017.

The contractor fees budget is to complete an assessment of needs for the City's lift stations.

| | Actual 2015 | CE INDICATOR Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
|--|--------------------|-----------------------------|--------------------|-----------------------|--------------------|
| Client Benefits/Impacts Sewage bypasses / backups # per year attributed to lift stations | <u>Actual 2015</u> | <u>Actual 2016</u> | <u>1arget 2017</u> | <u>Projected 2017</u> | <u>1arget 2016</u> |
| # per year allinduled to fill stations | 0 | 0 | 0 | 0 | 0 |
| Strategic Outcomes Integrity of lift stations maintained # of emergency calls required | 11 | 10 | 15 | 15 | 5 |
| 0, 1 | | | | | |
| Work Process Outputs Response to work orders | | | | | |
| # of preventive work orders | 195 | 202 | 168 | 168 | 160 |
| # of corrective work orders | 15 | 21 | 50 | 50 | 50 |
| | | | | | |

Lift Stations

Business Unit 5425

PROGRAM BUDGET SUMMARY

| | | Ac | tual | | | | | Budget | | | |
|------------------------------------|------|--------|------|---------|----|--------------|----|--------------|----|---------|--|
| Description | 2015 | | | 2016 | | Adopted 2017 | | Amended 2017 | | 2018 | |
| Expenses | | | | | | | | | | | |
| 6101 Regular Salaries | \$ | 22,217 | \$ | 33,626 | \$ | 23,575 | \$ | 23,575 | \$ | 36,428 | |
| 6104 Call Time | | 1,618 | | 1,235 | | 2,500 | | 2,500 | | 2,500 | |
| 6105 Overtime | | 2,249 | | 1,799 | | 1,955 | | 1,955 | | 2,014 | |
| 6108 Part Time | | 413 | | 149 | | - | | - | | , | |
| 6150 Fringes | | 10,044 | | 14,951 | | 10,803 | | 10,803 | | 16,907 | |
| 6327 Miscellaneous Equipment | | 1,300 | | 17,606 | | 18,000 | | 18,000 | | 1,600 | |
| 6404 Consulting Services | | - | | - | | 2,500 | | 2,500 | | 5,000 | |
| 6408 Contractor Fees | | 1,320 | | 9,371 | | 71,000 | | 71,000 | | 11,000 | |
| 6413 Utilities | | 36,553 | | 38,805 | | 41,026 | | 41,026 | | 41,350 | |
| 6418 Equip Repairs & Maint | | 9,964 | | 15,613 | | 13,500 | | 13,500 | | 11,000 | |
| 6420 Facilities Charges | | 269 | | - | | - | | - | | | |
| 6424 Software Support | | 1,600 | | - | | - | | - | | - | |
| 6599 Other Contracts / Obligations | | - | | 298 | | - | | - | | - | |
| Total Expense | \$ | 87,547 | \$ | 133,453 | \$ | 184,859 | \$ | 184,859 | \$ | 127,799 | |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

Utility Capital Improvements

Business Unit 5432

PROGRAM MISSION

For the benefit of Appleton sewer consumers, we will provide necessary improvements to all wastewater facilities, structures, and equipment so that the treatment processes meet current and future needs in a cost-effective manner.

Link to City Key Strategies:

PROGRAM NARRATIVE

Implements Key Strategies # 4: "Continually assess trends affecting the community and proactively respond, and # 6: "Create opportunities and learn from successes and failures".

Obiectives:

Provide resources to upgrade existing plant components and facilities Identify and install new systems and equipment for improved treatment processes Correct safety hazards when identified

The following are 2018 CIPs:

| | 20 | 18 Budget | Page |
|--|----|-----------|-------------------|
| Aeration Blower Replacement | \$ | 920,000 | Projects, Pg. 643 |
| Belt Filter Press upgrades | | 70,000 | Projects, Pg. 644 |
| Programmable Logic Controller and SCADA system maintenance | | 158,500 | Projects, Pg. 646 |
| Marshall Heights Lift Station upgrades | | 150,000 | Projects, Pg. 645 |
| Electrical Distribution System Replacement | | 1,470,750 | Projects, Pg. 610 |
| Landscaping | | 25,000 | Projects, Pg. 612 |
| Roadway Replacement | | 290,000 | Projects, Pg. 613 |
| S-building air handling unit upgrades | | 250,000 | Projects, Pg. 614 |
| H-building new water line | | 30,000 | Projects, Pg. 618 |
| - | | | |
| | \$ | 3,364,250 | |

Major changes in Revenue, Expenditures or Programs:

The budget for this program varies from year to year based on the capital needs of the utility.

Note for future capital planning:

In late 2015, the engineering firm CH2M provided the Utility Department recommendations that could achieve lower phosphorus and total suspended solids treatment limits resulting from Total Maximum Daily Load legislation. Treatment plant upgrades along with a matrix of off-site regulatory compliance options that include Water Quality Trading (WQT) and Adaptive Management (AM) were included as of the recommendations by CH2M. In a WQT program the Utility would purchase phosphorus credits from the agricultural community rather than constructing on-site treatment. Similarly, through AM the Utility would contract with agriculture to establish field practices that reduce phosphorus loading to the watershed. The structure for these "off-site" compliance alternatives remain undeveloped and will result in millions of dollars added to wastewater budgets over future permit cycles to evaluate and create mechanisms necessary for their success. In parallel with ongoing on-site treatment evaluation studies, the Appleton Wastewater Utility will explore AM and WQT opportunities to build experience of how these compliance options may function.

| PERFORMANCE INDICATORS | | | | | | | | | | |
|-------------------------------------|-------------|-------------|-------------|----------------|-------------|--|--|--|--|--|
| | Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 | | | | | |
| Client Benefits/Impacts | | | | | | | | | | |
| Cost effective treatment processes | | | | | | | | | | |
| # of CIP's in budget year | 15 | 11 | 13 | 15 | 10 | | | | | |
| # of CIP's in five-year plan | 19 | 24 | 21 | 23 | 18 | | | | | |
| Strategic Outcomes | | | | | | | | | | |
| Sewer Rate changes | | | | | | | | | | |
| % per year | 0% | 0% | 0% | 0% | 0% | | | | | |
| Work Process Outputs | | | | | | | | | | |
| Project Management | | | | | | | | | | |
| % of projects completed at year-end | 67% | 36% | 100% | 40% | 100% | | | | | |

Utility Capital Improvements

Business Unit 5432

PROGRAM BUDGET SUMMARY

| | Actual | | | | Budget | | | | | |
|----------------------------------|--------|-------------|----|-----------|--------|-------------|-----|-------------|----|-----------|
| Description | | 2015 | | 2016 | Ac | dopted 2017 | Arr | nended 2017 | | 2018 |
| Expenses | | | | | | | | | | |
| 6404 Consulting Services | \$ | 91,470 | \$ | 65,195 | \$ | 426,500 | \$ | 426,965 | \$ | 140,000 |
| 6408 Contractor Fees | | 1,195,190 | | 441,129 | | 2,500,000 | | 2,568,696 | | 920,000 |
| 6599 Other Contracts/Obligations | | 856 | | 370 | | - | | - | | 20,000 |
| 6801 Land | | - | | - | | 5,000 | | 5,000 | | - |
| 6802 Land Improvements | | 83,281 | | 140,463 | | 220,000 | | 220,000 | | 315,000 |
| 6803 Buildings | | 150,355 | | 64,019 | | 390,000 | | 435,953 | | 1,710,750 |
| 6804 Equipment | | 213,278 | | 140,860 | | 540,000 | | 665,347 | | 258,500 |
| 6809 Infrastructure Construction | | 4,806 | | - | | - | | - | | - |
| 6899 Other Capital Outlay | | (1,607,531) | | (769,595) | | - | | - | | - |
| Total Expense | \$ | 131,705 | \$ | 82,441 | \$ | 4,081,500 | \$ | 4,321,961 | \$ | 3,364,250 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| <u>Consulting Services</u> Electrical distribution upgrades Belt filter press upgrades Marshall Heights lift station | \$ | 40,000 70,000 30,000 140,000 | Land Improvements Roadway Replacement \$ 290,000 Landscaping 25,000 \$ 315,000 |
|---|-----|---------------------------------------|---|
| | | | Contractor Fees |
| Other Contracts/Obligations | | | Aeration blower replacement \$ 920,000 |
| PLC and SCADA maintenance | \$ | 20,000 | \$ 920,000 |
| | \$ | 20,000 | |
| Buildings | | | |
| H-building new water line | \$ | 30,000 | |
| Electrical distribution upgrades | · | 1,430,750 | |
| S-building air handling units upgrades | | 250,000 | |
| | \$ | 1,710,750 | |
| Equipment | | | |
| | \$ | 120.000 | |
| Marshall Heights lift station PLC and SCADA maintenance | Ф | 120,000 | |
| PLO and SOADA maintenance | _ | 138,500 | |
| | _\$ | 258,500 | |

Collection Systems

Business Unit 5427

PROGRAM MISSION

Maintain the sanitary sewer system for the health and safety of the community.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies # 1: "Prompt delivery of excellent services", # 2: "Encourage active community participation and involvement", # 4: "Continually assess trends affecting the community and proactively respond", # 6: "Create opportunities and learn from successes and failures", and # 7: "Communicate our success through stories and testimonials".

Objectives:

Complete the annual sewer cleaning program and identify those areas with improper connections and defects Reduce the amount of inflow and infiltration into the sanitary sewer system

Major changes in Revenue, Expenditures or Programs:

The fluctuation in contractor fees from year to year is the result of the root control program. Because the City does not have an extensive root problem, we are able to conduct this program every other year, which also results in better bid prices. The 2018 budget shows a reduction in contractor fees as a result.

Per the Sanitary Lateral Policy, \$10,000 has been added to consulting services to begin the lateral televising in advance of replacing them in 2019.

The amount budgeted in equipment repair and maintenance is to be used for preventive maintenance for the Rover X sewer camera to extend the life of the camera.

| | PERFORMAN | CE INDICATOR | S | | |
|---|-------------|---------------------|-------------|----------------|-------------|
| | Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
| Client Benefits/Impacts | | | | | |
| Benefit of inspection program | | | | | |
| # defects identified from TV report | 3 | 34 | 25 | 25 | 22 |
| Compliance with regulation | | | | | |
| # of protruding taps identified | 0 | 9 | 6 | 6 | 5 |
| # of cross connections identified | 86 | 103 | 80 | 80 | 60 |
| Strategic Outcomes | | | | | |
| Reliability of system maintenance program | | | | | |
| # of trouble calls | 28 | 17 | 35 | 35 | 30 |
| # of system blockages removed | 3 | 1 | 5 | 5 | 4 |
| % of total system televised | 14.1% | 14.2% | 10.0% | 10.0% | 11.0% |
| Work Process Outputs | | | | | |
| Maintenance performed | | | | | |
| % of total system cleaned | 47% | 49% | 48% | 48% | 48% |
| # of spot repairs made | 46 | 0 | 23 | 23 | 23 |
| Safeguarding health and safety | - | - | - | - | - |
| # of protruding taps removed | 3 | 0 | 5 | 5 | 5 |
| | _ | | - | _ | - |

Collection Systems

Business Unit 5427

PROGRAM BUDGET SUMMARY

| | Actual | | | | | Budget | | | | | |
|---|--------|---------------------------------------|----|-------------------------------------|----|---------------------------------------|----|---------------------------------------|----|--------------------------------------|--|
| Description | | 2015 | | 2016 | A | dopted 2017 | Am | ended 2017 | | 2018 | |
| Revenues 4801 Charges for Serv Nontax 4908 Intergovernmental Charges 5035 Other Reimbursements | \$ | 4,853 4,742 4,288 | \$ | 5,859 4,669 2,800 | \$ | 5,000 5,000 | \$ | 5,000 5,000 | \$ | 6,000 5,000 | |
| Total Revenue | \$ | 13,883 | \$ | 13,328 | \$ | 10,000 | \$ | 10,000 | \$ | 11,000 | |
| Expenses 6101 Regular Salaries 6104 Call Time | \$ | 269,130 1,574 | \$ | 245,830 1,141 | \$ | 271,270 1,500 | \$ | 271,539 1,500 | \$ | 290,650 1,500 | |
| 6105 Overtime 6108 Part-Time 6150 Fringes 6201 Training∖Conferences | | 5,418 - 92,162 - | | 3,973 973 91,107 | | 4,200 484 105,808 1,000 | | 4,200 484 105,848 1,000 | | 4,200 - 108,421 1,000 | |
| 6203 Memberships & Licenses 6305 Awards & Recognition 6309 Shop Supplies & Tools | | 245 2,573 | | 175 245 2,390 | | 245 3,000 | | 245 3,000 | | 245 2,500 | |
| 6325 Construction Materials 6327 Miscellaneous Equipment 6404 Consulting Services 6408 Contractor Fees | | 5,653 17,040 276,494 178,905 | | 9,086 5,042 244,927 62,188 | | 16,000 4,250 184,000 161,000 | | 16,000 4,250 194,612 244,000 | | 16,000 4,750 164,000 66,000 | |
| 6413 Utilities 6415 Tipping Fees 6418 Equipment Repairs & Maint | | 8,039 1,732 27 | | 10,069 4,964 | | 8,260 2,500 | | 8,260 2,500 | | 10,180 4,000 1,100 | |
| 6424 Software Support 6425 CEA Equip. Rental 6599 Other Contracts/Obligations | | 1,249 44,217 6,941 | | 2,357 46,064 5,771 | | 2,150 65,557 6,000 | | 2,150 65,557 6,000 | | 2,150 70,470 6,000 | |
| 6899 Other Capital Outlay Total Expense | \$ | (13,000) 898,399 | \$ | - 736,302 | \$ | - 837,224 | \$ | - 931,145 | \$ | - 753,166 | |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| <u>Construction Materials</u> Castings Concrete Other Materials | \$ 7,500 6,300 2,200 |
|--|---|
| | \$ 16,000 |
| <u>Consulting Services</u> Sewer TV & cleaning Flow monitoring - | \$ 150,000 |
| Kensington | 4,000 |
| Lateral Televising | 10,000 |
| | \$ 164,000 |
| <u>Contractor Fees</u> Surface restoring -prior year repairs Spot repair liners Unanticipated failures Misc Fees | \$ 25,000 20,000 20,000 1,000 66,000 |

Public Works Capital Improvements

Business Unit 5431

PROGRAM MISSION

Identify, design, and implement the capital construction program to maintain and expand the sanitary sewer system for the benefit of current and future users of the system.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies # 1: "Prompt delivery of excellent services", # 2: "Encourage active community participation and involvement", # 4: "Continually assess trends affecting the community and proactively respond", # 6: "Create opportunities and learn from successes and failures", and # 7: "Communicate our success through stories and testimonials".

Objectives:

Identify failing or improperly sized sewers and incorporate them into our five year plan Identify the need for future system expansions and incorporate them into our five year plan Design replacement systems or system expansions to meet current and future demands Reduce the amount of inflow and infiltration into the sanitary sewer system

The following are 2018 CIPs:

Sanitary Sewer Construction

| 2018 Budget | Page |
|--------------|-------------------|
| \$ 2,235,551 | Projects, Pg. 602 |

Major changes in Revenue, Expenditures or Programs:

No major change.

| | Actual 2015 | CE INDICATOR Actual 2016 | | Projected 2017 | Target 2018 |
|---|-------------|-----------------------------|-------|----------------|-------------|
| Client Benefits/Impacts | | | | | |
| Reduction of wastewater treatment cost | | | | | |
| # of manholes - rehab/rebuilt | 23 | 34 | 25 | 25 | 25 |
| Collection system rating from CMAR | Ā | A | A | A | |
| # of laterals replaced | 106 | 134 | 200 | 200 | 200 |
| Strategic Outcomes | | | | | |
| Improvements to the sanitary sewer system | | | | | |
| Total miles of sanitary sewer | 323 | 325 | 324 | 324* | 32 |
| % of total miles of sanitary sewer | 010 | 020 | 0-1 | 02. | |
| reconstructed | 0.46% | 0.60% | 0.52% | 0.52% | 0.50% |
| Nork Process Outputs | | | | | |
| Restoration of sanitary sewers | | | | | |
| Miles of existing sanitary sewers | | | | | |
| reconstruction | 1.47 | 1.95 | 1.70 | 1.70 | 1.84 |
| | 1.47 | 1.95 | 1.70 | 1.70 | 1.0 |
| Expansion of sanitary sewer system | 0.49 | 1.04 | 0.23 | 0.23 | 0.6 |
| Miles of new sanitary sewer added Reduction of treatment costs | 0.49 | 1.04 | 0.23 | 0.23 | 0.03 |
| # of seals installed | 94 | 94 | 100 | 100 | 10 |
| # UI SEAIS IIISIAIIEU | 94 | 94 | 100 | 100 | 10 |

Total Miles of sanitary sewer main decreased due to the City abandoning 2975 feet while installing only 494 feet of new sewer main.

Public Works Capital Improvements

Business Unit 5431

PROGRAM BUDGET SUMMARY

| | Actual | | | Budget | | | | | | |
|----------------------------------|--------|-----------|----|-------------|----|------------|----|-------------|----|-----------|
| Description | | 2015 | | 2016 | Ac | opted 2017 | Am | nended 2017 | | 2018 |
| Expenses | | | | | | | | | | |
| 6101 Regular Salaries | \$ | 19.017 | \$ | 11,856 | \$ | 129,640 | \$ | 129,640 | \$ | 112,855 |
| 6104 Call Time | • | 53 | · | - | · | - | · | - | · | - |
| 6105 Overtime | | 3,018 | | 5,937 | | 4,777 | | 4,777 | | 4,143 |
| 6108 Part-Time | | 1,017 | | 474 | | 3,110 | | 3,110 | | 2,854 |
| 6150 Fringes | | 7,301 | | 8,750 | | 48,972 | | 48,972 | | 38,473 |
| 6325 Construction Materials | | 159 | | 484 | | - | | - | | - |
| 6404 Consulting Services | | 65,621 | | 36,175 | | - | | - | | 50,000 |
| 6425 CEA Equip. Rental | | - | | - | | 7,400 | | 7,400 | | 7,400 |
| 6599 Other Contracts/Obligations | | 150 | | 475 | | - | | - | | - |
| 6801 Land | | 1,150 | | - | | - | | - | | - |
| 6809 Infrastructure Construction | | 653,438 | | 1,483,486 | | 3,290,905 | | 3,973,837 | | 2,019,826 |
| 6899 Other Capital Outlay | | (202,361) | | (1,161,411) | | - | | - | | - |
| Total Expense | \$ | 548,563 | \$ | 386,226 | \$ | 3,484,804 | \$ | 4,167,736 | \$ | 2,235,551 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| | Street | From | То | Waste- water Utility |
|------------------------|--|---------------------------|--------------------------|----------------------------|
| Labor Pool | | | | 158,32 |
| CEA | | | | 7,40 |
| Consultant | Lawe St - South Is | sland St river crossi | ng force main | 50,00 |
| | Subtotal | | | 50,00 |
| Miscellaneous | Sanitary Laterals & | & Manholes Prior To | o 2018 Asphalt | 47,49 |
| Construction | Sanitary Laterals | & Manholes Prior To | o 2018 Concrete | 32,64 |
| | Structure Rehabili | tation / Sewer Cut r | epairs from 2017 | 40,00 |
| | Subtotal | | | 120,14 |
| New Construction | Haymeadow Ave | Bluewater Way | Spartan Ave | 107,35 |
| | Spartan Ave | Haymeadow Ave | e/o | 101,70 |
| | Spartan Ave | Richmond St | Sommers Dr | 203,40 |
| | Subtotal | | | 412,45 |
| Reconstruction - liner | Calumet St | Lawe St | Carpenter St, 92' w/o | 44,66 |
| | Easement - Outagamie and Highcrest | Cedar St | Reid Dr | 17,13 |
| | Harris St | Douglas St | Douglas St, 332' e/o | 13,28 |
| | Memorial Dr, | Ravinia PI, 304' n/o | Cherry Ct, 443' s/o | 142,24 |
| | Spruce St | College Ave | Eighth St | 29,68 |
| Reconstruction - other | Hammond Ave | Ballard Rd to the | east | 65,00 |
| | Subtotal | | | 311,99 |
| Reconstruction (on | Alvin St | Evergreen Dr | cds | 39,02 |
| streets to be paved | Center St | North St | Atlantic St | 92,32 |
| in 2019) | Evergreen Dr | Richmond St | Haymeadow Ave | 25,00 |
| | Hall St | Woodland Ave | Grant St | 63,59 |
| | Roosevelt St | Morrison St | Durkee St | 84,32 |
| | Summit St | Spencer St | College Ave | 129,10 |
| | Telulah Ave | Calumet St | John St | 741,87 |
| | Subtotal | | | 1,175,24 |
| Total | | | <u> </u> | \$ 2,235,55 |

| 83500 | | City c | of Appleton | | | | 1 |
|--|-----------------------|----------------------|--------------------|-----------------------|--------------------|---------------------|--------------------|
| TEACHERA | | | Budget | | | | 09/28/17 |
| BUD_WW_LN | | Revenue and | Expense Summa | ary | | | 09:44:32 |
| | | | | 2017 | 2017 | 2018 | 2018 |
| Description | 2015 Actual | 2016 Actual | 2017 YTD Actual | Adopted Budget | Amended Budget | Requested Budget | Adopted Budget |
| | | | | | | | |
| REVENUES | | | | | | | |
| Interest Income | 200,727 | 157,142 | 265,113 | 370,000 | 370,000 | 260,000 | 260,000 |
| Charges for Services | 9,309,725 | 9,038,994 | | 9,353,000 | 9,353,000 | 8,945,000 | 8,945,000 |
| Intergov. Charges for Service | 4,742 | 4,670 | 297 | 5,000 | 5,000 | 5,000 | 5,000 |
| Other Revenues | 2,446,047 | 2,804,793 | 2,194,823 | 1,887,353 | 1,887,353 | 2,324,806 | 2,324,806 |
| TOTAL REVENUES | 11,961,241 ======= | 12,005,599 ====== | 8,711,473 | 11,615,353 ======= | | | |
| EXPENSES BY LINE ITEM | | | | | | | |
| Regular Salaries | 350,627 | 371,832 | 263,585 | 442,735 | 451,185 | 444,174 | 444,174 |
| Labor Pool Allocations | 983,966 | 1,046,972 | 784,054 | 1,303,787 | 1,303,787 | 1,327,157 | 1,327,157 |
| Call Time | 5,026 | 5,155 | 3,642 | 7,061 | 7,061 | 7,106 | 7,106 |
| Overtime | 67,103 | 74,580 | 58,875 0 | 79,409 | 79,409 | 89,960 | 89,960 |
| Temp. Full-Time Part-Time | 1,017 14,303 | 0 11,422 | 10,540 | 0 14,148 | 0 14,148 | 0 14,614 | 0 14,614 |
| Other Compensation | 7,803 | 6,830 | 5,680 | 8,265 | 8,265 | 8,155 | 8,155 |
| Shift Differential | 2,231 | 2,160 | 1,530 | 2,425 | 2,425 | 2,425 | 2,425 |
| Sick Pay | 8,605 | 9,581 | 3,602 | 0 | 0 | 0 | 0 |
| Vacation Pay | 145,122 | 157,513 | 112,052 | 0 | 0 | 0 | 0 |
| Fringes Unemployment Compensation | 543,679 505 | 619,098 136 | 442,319 0 | 657,062 0 | 658,318 0 | 701,192 0 | 701,192 0 |
| Pension Expense / Revenue | 8,425- | | 0 | 0 | 0 | 0 | 0 |
| Salaries & Fringe Benefits | 2,121,562 | 2,512,687 | 1,685,879 | 2,514,892 | 2,524,598 | 2,594,783 | 2,594,783 |
| Training & Conferences | 4,188 | 9,000 | 7,618 | 8,780 | 8,780 | 8,500 | 8,500 |
| Office Supplies | 3,712 | 2,773 | 1,190 | 3,000 | 3,000 | 3,000 | 3,000 |
| Subscriptions | 74 | 267 | 74 | 100 | 100 | 100 | 100 |
| Memberships & Licenses | 2,858 | 2,314 | 5,795 | 4,055 | 4,055 | 7,040 | 7,040 |
| Postage & Freight Awards & Recognition | 23,726 309 | 18,817 595 | 11,810 149 | 24,500 545 | 24,500 545 | 26,500 545 | 26,500 545 |
| Building Maintenance/Janitor. | | 5,929 | 3,634 | 7,000 | 7,000 | 6,500 | 6,500 |
| Food & Provisions | 601 | 400 | 93 | 400 | 400 | 400 | 400 |
| Insurance | 127,697 | 137,808 | 199,484 | 265,980 | 265,980 | 0 | 265,812 |
| | 3,248,192 | 2,928,395 | 2,160,000 | 3,395,000 | 3,395,000 | 3,200,000 | |
| Uncollectible Accounts Meter Expense | 3,140 437,434 | 2,165 514,361 | 819 0 | 5,500 | 5,500 | 4,500 630,000 | 4,500 630,000 |
| Interest Payments | 549,687 | 541,150 | | 554,013 | | | 522,325 |
| Trans Out - General Fund | 117,450 | | 88,088 | 117,450 | | | 117,450 |
| Trans Out - Wastewater | 500,000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Administrative Expense | 5,025,608 | 4,281,424 | | 5,036,522 | 5,036,522 | 4,526,860 | 4,792,672 |
| Shop Supplies & Tools | 30,641 | 34,774 | 29,972 | 45,500 | 45,500 | 30,500 | 30,500 |
| Chemicals | 251,624 | 230,936 | 183,296 | 315,000 | 315,000 | 335,000 | 335,000 |
| Miscellaneous Supplies | 0 | 0 | 3,411 | 0 | 0 | 1,000 | 1,000 |
| Printing & Reproduction Clothing | 4,938 5,848 | 5,237 5,330 | 4,202 2,867 | 6,300 5,905 | 6,300 5,905 | 6,300 5,500 | 6,300 5,500 |
| Gas Purchases | 8,186 | 8,359 | | 10,150 | 10,150 | | 8,400 |
| Safety Supplies | 8,493 | 8,359 6,990 | 7,929 | 5,500 | 5,500 | 5,500 | 5,500 |
| Medical & Lab Supplies | 20,578 | 20,239 | 14,498 5,945 | 20,000 | 20,000 | 21,000 16,000 | 21,000 |
| Construction Materials | 5,812 0 | | | 16,000 0 | 16,000 | 16,000 | |
| Vehicle & Equipment Parts Miscellaneous Equipment | 30,656 | 0 74,974 | 2,928 36,196 | | 0 36,450 | 110,000 45,350 | 110,000 45,350 |
| Supplies & Materials | 366,776 | 396,408 | 293,935 | 460,805 | 460,805 | 584,550 | 584,550 |
| Accounting/Audit | 11,317 | 11,140 | 0 | 12,020 | 12,020 | 9,360 | 9,360 |
| Legal Fees | 28,931 | 26,729 | 27,077 | 29,700 | 29,700 | 29,250 | 29,250 |
| Bank Services | 20,973 | 20,170 | | 21,500 | 21,500 | 21,500 | 21,500 |
| Consulting Services | 473,843 | 364,681 | 258,981 | 793,000 | 907,494 | 397,000 | 397,000 |
| Collection Services Contractor Fees | 3,350 1,918,645 | 2,965 1,108,377 | 4,376 392,013 | 3,400 3,377,150 | 3,400 3,532,446 | 3,750 1,750,500 | 3,750 1,650,500 |
| Temporary Help | 1,918,645 276 | 1,108,377 | 392,013 434 | 3,377,150 | 3,532,446 | 0 | |
| Advertising | 2,494 | 56 | 0 | 1,500 | 1,500 | 1,500 7,500 | 1,500 |
| Tipping Fees | 5,024 | 7,725 | 5,597 | 6,000 | 6,000 | ., | 7,500 |
| Lab Fees | 1,114 | 1,139 | 6,676 | 2,000 | 2,000 | 25,050 | 25,050 |
| | | | | | | | |

City of Appleton 2018 Budget Revenue and Expense Summary

2 09/28/17 09:41:14

| Description | 2015 Actual | 2016 Actual | 2017 YTD Actual | 2017 Adopted Budget | 2017 Amended Budget | 2018 Requested Budget | 2018 Adopted Budget |
|-------------------------------|----------------|----------------|--------------------|---------------------------|---------------------------|-----------------------------|---------------------------|
| Billing Services | 60,290 | 61,721 | 44,781 | 66,800 | 66,800 | 65,000 | 69,000 |
| Snow Removal Services | 3,401 | 2,950 | 2,108 | 3,500 | 3,500 | 3,500 | 3,500 |
| Other Contracts/Obligations | 38,676 | 52,104 | 31,597 | 59,940 | 59,940 | 79,975 | 79,975 |
| Purchased Services | 2,568,334 | 1,659,757 | 786,401 | 4,376,510 | 4,646,300 | 2,393,885 | 2,297,885 |
| Electric | 870,495 | 853,736 | 637,369 | 878,450 | 878,450 | 878,450 | 878,450 |
| Gas | 124,799 | 72,268 | 95,281 | 96,200 | 96,200 | 91,200 | 91,200 |
| Water | 67,481 | 67,993 | 42,367 | 69,100 | 69,100 | 71,000 | 71,000 |
| Stormwater | 32,237 | 32,679 | 15,745 | 32,241 | 32,241 | 32,565 | 32,565 |
| Telephone | 11,085 | 10,858 | 8,634 | 11,700 | 11,700 | 11,400 | 11,400 |
| Cellular Telephone | 2,963 | 4,455 | 2,860 | 5,340 | 5,340 | 5,200 | 5,200 |
| Utilities | 1,109,060 | 1,041,989 | 802,256 | 1,093,031 | 1,093,031 | 1,089,815 | 1,089,815 |
| Building Repair & Maintenance | 0 | 0 | 129 | 0 | 0 | 35,000 | 35,000 |
| Vehicle Repair & Maintenance | 0 | 0 | 0 | 0 | 0 | 10,000 | 10,000 |
| Equipment Repair & Maintenanc | 179,296 | 218,798 | 86,664 | 115,500 | 115,500 | 42,600 | 42,600 |
| Facilities Charges | 468,737 | 379,064 | 218,694 | 448,221 | 448,221 | 446,045 | 446,045 |
| Software Support | 19,309 | 15,334 | 10,430 | 16,450 | 16,450 | 16,450 | 16,450 |
| CEA Equipment Rental | 83,067 | 84,741 | 65,651 | 109,777 | 109,777 | 119,500 | 119,500 |
| Grounds Repair & Maintenance | 9,343 | 5,286 | 9,504 | 7,500 | 7,500 | 7,500 | 7,500 |
| Repair & Maintenance | 759,752 | 703,223 | 391,072 | 697,448 | 697,448 | 677,095 | 677,095 |
| Land | 1,150 | 0 | 0 | 5,000 | 5,000 | 0 | 0 |
| Land Improvements | 83,281 | 140,463 | 25,040 | 220,000 | 220,000 | 450,000 | 315,000 |
| Buildings | 150,355 | 64,019 | 55,557 | 390,000 | 435,953 | 1,710,750 | 1,710,750 |
| Machinery & Equipment | 213,278 | 140,860 | 123,597 | 540,000 | 665,347 | 488,500 | 258,500 |
| Infrastructure Construction | 658,244 | 1,483,486 | 2,271,231 | 3,290,905 | 3,973,837 | 2,019,826 | 2,019,826 |
| Other Capital Outlay | 1,860,442- | 1,958,831- | 0 | 0 | 0 | 0 | 0 |
| Capital Expenditures | 754,134- | 130,003- | 2,475,425 | 4,445,905 | 5,300,137 | 4,669,076 | 4,304,076 |
| TOTAL EXPENSES | 11,196,958 | 10,465,485 | 9,333,032 | 18,625,113 | 19,758,841 | 16,536,064 | 16,340,876 |

CITY OF APPLETON 2018 BUDGET WASTEWATER UTILITY STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET ASSETS

| Revenues | 2015 Actual | 2016 Actual | 2017 Budget | 2017 Projected | 2018 Budget | | | | |
|--|--|--|---|---|---|--|--|--|--|
| Charges for Services Miscellaneous Total Revenues | \$ 9,617,422 1,545,955 11,163,377 | \$ 9,358,103 2,236,580 11,594,683 | \$ 9,658,000 1,569,300 11,227,300 | \$ 9,500,000 2,269,300 11,769,300 | \$ 9,275,000 1,826,000 11,101,000 | | | | |
| Expenses | | | | | | | | | |
| Operation and Maintenance Depreciation Total Expenses | 6,781,629 3,248,192 10,029,821 | 6,807,640 2,928,395 9,736,035 | 7,152,346 3,395,000 10,547,346 | 7,551,326 2,975,000 10,526,326 | 6,901,300 3,200,000 10,101,300 | | | | |
| Operating Income (Loss) | 1,133,556 | 1,858,648 | 679,954 | 1,242,974 | 999,700 | | | | |
| Non-Operating Revenues (Expenses) | | | | | | | | | |
| Interest Income Interest Expense Gain/Loss on Asset Disposal Amortization of Premium on Debt Issue Total Non-Operating | 200,727 (549,687) (31,185) <u>19,438</u> (360,707) | 157,142 (541,150) (57,030) <u>18,773</u> (422,265) | 370,000 (554,013) - - - - - - - - - - - - - - - - - - - | 325,000 (554,013) - - - - - - - - - - - - - - - - - - - | 260,000 (522,325) - - - - - - - - - - - - - - - - - - - | | | | |
| Net Income Before Contributions and Transfers | 772,849 | 1,436,383 | 513,994 | 1,032,014 | 754,631 | | | | |
| Contributions and Transfers In (Out) | | | | | | | | | |
| Capital Contributions Trans Out - Capital Projects | 608,884 | 292,031 (70,850) | - | - | 156,550 | | | | |
| Trans Out - Stormwater Trans Out - General Fund | (500,000) (117,450) | (117,450) | (117,450) | (117,450) | (117,450) | | | | |
| Change in Net Assets | 764,283 | 1,540,114 | 396,544 | 914,564 | 793,731 | | | | |
| Net Assets - Beginning | 93,634,716 | * 94,398,999 | 95,939,113 | 95,939,113 | 96,853,677 | | | | |
| Net Assets - Ending | \$ 94,398,999 | \$ 95,939,113 | \$ 96,335,657 | \$ 96,853,677 | \$ 97,647,408 | | | | |
| * as restated SCHEDULE OF CASH FLOWS | | | | | | | | | |

SCHEDULE OF CASH FLOWS

| Working Cash - Beginning of Year + Change in Net Assets + Depreciation | 14,478,674 914,564 2,975,000 | 9,527,186 793,731 3,200,000 |
|--|------------------------------------|-----------------------------------|
| + Long Term Debt | - | · · |
| - Contributed Capital - Fixed Assets | - (8,141,052) | (156,550) (5,599,801) |
| - Principal Repayment | (860,000) | (890,000) |
| + Fixed Assets funded by DNR Replacement Fund | 160,000 | - |
| Working Cash - End of Year | \$ 9,527,186 | \$ 6,874,566 |

RESERVE REQUIREMENTS

| Prior Year Audited Expenditures - Depreciation + Transfer to General Fund | \$ 9,736,035 (2,928,395) 117,450 | Fixed Asset Balance 12/31/16 10% Requirement | \$ 20,176,705 \$ 2,017,671 |
|---|--|--|-------------------------------|
| Net Prior Year Cash Expenditures | \$ 6,925,090 | DNR Fund Balance 12/31/16 | \$ 3,592,322 |
| 25 % Working Capital Reserve Requirement | \$ 1,731,273 | DNR Funded CIP projects DNR Fund Balance 12/31/17 | (160,000) \$ 3,432,322 |

Working Capital

DNR Fund

CITY OF APPLETON 2018 BUDGET WASTEWATER UTILITY CALCULATION OF RATE INCREASE DOCUMENTATION

| Revenues | 2017 Budget | 2017 Projected | 2018 Budget | 2019 Projected | 2020 Projected | 2021 Projected | 2022 Projected |
|---|---|--|---|--|---|---|--|
| Charges for Services Miscellaneous Total Revenues | \$ 9,658,000 1,569,300 11,227,300 | \$ 9,500,000 2,269,300 11,769,300 | \$ 9,275,000 1,826,000 11,101,000 | \$ 9,298,188 1,828,283 11,126,470 | \$ 10,413,970 1,830,568 12,244,538 | \$ 10,440,005 1,832,856 12,272,861 | \$ 10,466,105 1,835,147 12,301,252 |
| Expenses | | | | | | | |
| Operating Expenses Depreciation Total Expenses | 7,152,346 3,395,000 10,547,346 | 7,551,326 2,975,000 10,526,326 | 6,901,300 3,200,000 10,101,300 | 7,108,339 3,375,000 10,483,339 | 7,321,589 3,625,000 10,946,589 | 7,541,237 3,760,000 11,301,237 | 7,767,474 3,895,000 11,662,474 |
| Operating Income | 679,954 | 1,242,974 | 999,700 | 643,131 | 1,297,949 | 971,624 | 638,778 |
| Non-Operating Revenues (Expenses) | | | | | | | |
| Interest Income Interest Expense Premium on Debt Issue Debt Issue Costs Total Non-Operating | 370,000 (554,013) 18,053 | 325,000 (554,013) 18,053 - (210,960) | 260,000 (522,325) 17,256 | 250,000 (573,869) 16,399 (100,000) (407,470) | 225,000 (856,277) 15,431 (85,000) (700,846) | 200,000 (1,043,602) 14,321 (75,000) (904,281) | 150,000 (1,114,604) 13,124 - (951,479) |
| Net Income Before Transfers | - 513,994 | ۔ 1,032,014 | - 754,631 | - 235,661 | - 597,102 | 67,343 | (312,701) |
| Contributions and Transfers In (Out) | | | | | | | |
| Capital Contributions | - | - | 156,550 | - | - | - | - |
| Trans Out - Internal Service General Fund | - (117,450) | - (117,450) | - (117,450) | - (117,450) | - (117,450) | - (117,450) | - (117,450) |
| Change in Net Assets | 396,544 | 914,564 | 793,731 | 118,211 | 479,652 | (50,107) | (430,151) |
| Total Net Assets - Beginning | 95,939,113 | - 95,939,113 | 96,853,677 | 97,647,408 | 97,765,619 | 98,245,271 | 98,195,164 |
| Total Net Assets - Ending | \$96,335,657 | \$96,853,677 | \$97,647,408 | \$ 97,765,619 | \$ 98,245,271 | \$ 98,195,164 | \$ 97,765,013 |

SCHEDULE OF CASH FLOWS

| Cash - Beginning of the Year | 14,478,674 | 9,527,186 | 6,874,566 | 6,004,612 | 6,456,889 | 6,908,169 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| + Change in Net Assets | 914,564 | 793,731 | 118,211 | 479,652 | (50,107) | (430,151) |
| + Depreciation | 2,975,000 | 3,200,000 | 3,375,000 | 3,625,000 | 3,760,000 | 3,895,000 |
| + Long Term Debt | - | - | 8,500,000 | 6,400,000 | 4,500,000 | - |
| - Contributed Capital | - | (156,550) | - | - | - | - |
| - Fixed Assets | (8,141,052) | (5,599,801) | (11,943,165) | (9,097,375) | (6,433,613) | (3,220,341) |
| - Principal Repayment | (860,000) | (890,000) | (920,000) | (955,000) | (1,325,000) | (1,615,000) |
| + Fixed Assets funded by DNR Rplcmnt Fund | 160,000 | | | | | |
| Working Cash - End of Year | \$ 9,527,186 | \$ 6,874,566 | \$ 6,004,612 | \$ 6,456,889 | \$ 6,908,169 | \$ 5,537,677 |
| 25% Working Capital Reserve (prior year's audite | ed expenses) | 2,055,697 | 1,885,269 | 1,949,915 | 2,073,829 | 2,175,572 |
| Coverage Ratio | 3.15 | 3.20 | 2.72 | 2.74 | 2.01 | 1.79 |

ASSUMPTIONS:

Borrow 70% of capital expenditures as detailed in plan starting in 2019.

Interest rate at 4%; twenty year term for borrowings starting in 2019

Projected rate increase 1/4% for additional customer base each year.

Operating expenses to increase 3.0% per year after 2018 Maintain a level of 25% working capital reserve and 1.20 coverage ratio as required by bond covenants

RESULTS:

Rates and borrowing needs should be monitored on an annual basis for adjustment based on actual results or changes in circumstances. A 10% rate increase is projected for 1/1/2020 to provide cash flow needed and to cover operating expense and to meet the debt coverage ratio. The current rates were effective 7/1/2011.

CITY OF APPLETON 2018 BUDGET WASTEWATER UTILITY LONG TERM DEBT - REVENUE BONDS

| | 20 Revenu | 06 e Bon | ds | 20 Revenu | 07 e Bor | ıds | 20 Refundir | 08 1a Bo | nds |
|--|--|-------------|---|--|-------------|---|---|-------------|--|
| | Principal | | Interest | Principal | | Interest | Principal | 0 | Interest |
| 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 | \$ 175,000 175,000 185,000 200,000 215,000 225,000 235,000 245,000 | \$ | 84,575 76,700 68,525 59,250 49,333 38,833 27,750 16,167 4,083 | 115,000 120,000 125,000 135,000 140,000 145,000 155,000 160,000 170,000 180,000 | \$ | 67,427 62,250 56,333 49,750 42,833 35,667 28,083 20,167 11,833 3,000 | \$ 200,000 215,000 220,000 230,000 240,000 255,000 265,000 275,000 290,000 305,000 315,000 | \$ | 118,919 110,519 101,786 92,336 81,638 70,013 57,845 45,213 32,250 18,750 4,725 |
| 2030 | - | | - | - | | - | - | | - |
| 2031 | - | | - | - | | - | - | | - |
| | \$ 1,850,000 | \$ | 425,216 | \$ 1,445,000 | \$ | 377,343 | \$ 2,810,000 | \$ | 733,994 |

| | 20 Revenu | - | nds | 2011 Revenue Bonds | | | | | | |
|--|--|----|--|--|----|---|--|--|--|--|
| | Principal | | Interest | Principal | | Interest | | | | |
| 2018 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 | \$ 235,000 245,000 260,000 270,000 280,000 290,000 300,000 315,000 325,000 340,000 355,000 370,000 | \$ | 137,854 130,800 123,350 114,783 105,450 95,300 84,067 72,200 59,800 46,933 33,533 19,533 4,933 | \$ $\begin{array}{c} 165,000\\ 165,000\\ 175,000\\ 190,000\\ 195,000\\ 205,000\\ 210,000\\ 220,000\\ 230,000\\ 240,000\\ 250,000\\ 260,000\\ \end{array}$ | \$ | 113,550 108,600 102,283 95,150 87,683 79,950 71,883 63,550 54,883 45,817 36,350 26,483 16,217 | | | | |
| 2031 | | | - | 300,000 | | 4,250 | | | | |
| | \$ 3,835,000 | \$ | 1,028,536 | \$ 2,985,000 | \$ | 906,649 | | | | |

| | | TOTAL | |
|------|---------------|-----------------|------------------|
| | Principal | Interest | Total |
| | | | |
| 2018 | 890,000 | \$ 522,325 | \$ 1,412,325 |
| 2019 | 920,000 | 488,869 | 1,408,869 |
| 2020 | 955,000 | 452,277 | 1,407,277 |
| 2021 | 1,000,000 | 411,269 | 1,411,269 |
| 2022 | 1,040,000 | 366,937 | 1,406,937 |
| 2023 | 1,090,000 | 319,763 | 1,409,763 |
| 2024 | 1,140,000 | 269,628 | 1,409,628 |
| 2025 | 1,180,000 | 217,297 | 1,397,297 |
| 2026 | 1,240,000 | 162,849 | 1,402,849 |
| 2027 | 1,040,000 | 114,500 | 1,154,500 |
| 2028 | 895,000 | 74,608 | 969,608 |
| 2029 | 605,000 | 46,016 | 651,016 |
| 2030 | 630,000 | 21,150 | 651,150 |
| 2031 | 300,000 | 4,250 | 304,250 |
| | · | | |
| | \$ 12,925,000 | \$ 3,471,738 | \$ 16,396,738 |

Note: Schedule is based on accrual method of accounting. Revenue bonds will not be issued in 2018.

CITY OF APPLETON 2018 BUDGET

STORMWATER UTILITY

Public Works Director: Paula A. Vandehey Deputy Director/City Engineer: Ross M. Buetow Deputy Director of Operations-DPW: Nathan D. Loper

MISSION STATEMENT

The Stormwater Utility was created to provide for the management of surface water run-off in the City of Appleton. It exists to limit flooding and protect water quality.

DISCUSSION OF SIGNIFICANT 2017 EVENTS

Updated the following City Stormwater Plans per new WDNR standards: Illicit Discharge Detection and Elimination

Completed final construction of Northland Pond in West Wisconsin drainage study area

Continued to improve practices for inspecting and maintaining City stormwater facilities by using available resources such as GIS mapping and the DPW horticulturist position

Hauled leaves and debris to the Outagamie County pilot compost site to reduce haul distances and associated costs

Continued implementing the selected alternatives of detailed drainage studies as streets come up for reconstruction, to reduce flooding and to take advantage of opportunities to implement water quality practices

Continued to implement the on-going Field Screening Program for the illicit discharge requirements of the City's NR216 Permit

Continued implementing the following programs as required by the City's NR216 permit: Public Education, Public Participation, Erosion Control, Pollution Prevention, Illicit Discharge Detection/Elimination, and Post-Construction Stormwater Management Plan review

Continue to inspect and maintain the stormwater facilities on Appleton Area School District (AASD) property (added in 2016) including ponds, bio-filters, and large sump manholes per the cooperative agreement with AASD.

Currently maintaining a total inventory of 40 wet ponds, 8 dry ponds, 4 bio-filters, and several miles of engineered channels

Continued working toward compliance with the new WDNR NR216 Water Quality Permit / Fox River TMDL

Continued to coordinate with WisDOT on 441/Oneida Street project to facilitate possible future expansion of the Valley Road detention basin to improve flood reduction and runoff quality

Completed construction of Arbutus Park storm sewer lift station rehabilitation

Continued design, permitting, and property acquisition for Leona Pond

Completed 60% engineering for Spartan Drive storm sewers, stormwater management practices, and stream crossings

Assisted Community Development with permitting issues, delineated wetlands and other stormwater planning issues

Received \$349,790 funding from the DNR Municipal Flood Control Grant for Northland Pond

Administered installation of native vegetation for Facilities & Construction Management at the new Erb Pool Pond

Constructed CTH JJ/Lightning Stormwater Pond jointly with Outagamie County for JJ/Lightning Drive reconstruction project

Constructed Cotter Street Pond to reduce flooding in Leonard Street Basin Study Area

Installed two new storm sewer outfalls to the Fox River per Spencer-Locust Basin Study

Completed drainage study for urbanization of Alvin Street and Evergreen Drive east of Richmond Street

MAJOR 2018 OBJECTIVES

Continue implementing the following programs as required by the City's NR216 permit: Public Education, Public Participation, Erosion Control, Pollution Prevention, Illicit Discharge Detection/Elimination, Post-Construction Stormwater Management Plans, including implementing the eighth year of on-going Field Screening Program for the Illicit Discharge requirements of the City's NR216 Permit

Continue to identify and pursue water quality practices toward continual progress in achieving compliance with TMDL water quality standards

Continue to improve practices for inspecting and maintaining City stormwater facilities by using available resources such as GIS mapping and the DPW horticulturist position

Continue to haul leaves and debris to the Outagamie County pilot compost site to reduce haul distances and associated costs

Continue to address flooding concerns by refining and implementing recommendations from completed drainage studies throughout the City

Continue working with WisDOT to find joint stormwater solutions on STH 441 Project

Continue to acquire land, complete bid documents, grant applications, and permit applications for Leona Street Pond Project

Construct Spartan Drive storm sewer and stream crossing between STH 47 and Haymeadow Avenue

Reconstruct Ballard Road storm sewer from Wisconsin Avenue to Fox River for flood reduction

Continue to update GIS measurements for all commercial properties for utility billing

Construct storm sewers and stormwater management facilities for reconstruction of Evergreen Drive east of STH 47 and Alvin Street jointly with Town of Grand Chute to meet future development needs.

| | | DEPA | ARTMENT BUD | GET SUMMARY | , | | |
|-----------|--------------------------|---------------|---------------|---------------|---------------|---------------|----------|
| | Programs | Act | tual | | Budget | | % |
| Unit | Title | 2015 | 2016 | Adopted 2017 | Amended 2017 | 2018 | Change * |
| Pr | rogram Revenues | \$ 10,457,171 | \$ 10,109,539 | \$ 10,270,565 | \$ 10,270,565 | \$ 10,248,990 | -0.21% |
| Pr | rogram Expenses | | | | | | |
| 5210 | Administration | 5,193,082 | 5,459,129 | 5,555,798 | 5,565,313 | 5,790,432 | 4.22% |
| 5220 | Facility Maintenance | 1,334,602 | 1,287,949 | 1,467,360 | 1,469,477 | 1,375,789 | -6.24% |
| 5225 | Leaf Collection | 427,209 | 436,899 | 424,575 | 426,057 | 445,172 | 4.85% |
| 5230 | Capital Construction | 571,398 | 482,214 | 12,441,669 | 13,203,786 | 6,099,124 | -50.98% |
| | TOTAL | \$ 7,526,291 | \$ 7,666,191 | \$ 19,889,402 | \$ 20,664,633 | \$ 13,710,517 | -31.07% |
| Expense | es Comprised Of: | | | | | | |
| Personn | nel | 1,382,857 | 1,586,771 | 1,697,932 | 1,703,697 | 1,767,897 | 4.12% |
| Administ | trative Expense | 4,508,102 | 4,507,679 | 4,717,472 | 4,717,472 | 5,002,224 | 6.04% |
| Supplies | s & Materials | 80,676 | 95,193 | 103,015 | 103,015 | 93,420 | -9.31% |
| Purchas | ed Services | 882,601 | 1,293,383 | 1,128,640 | 1,595,853 | 625,820 | -44.55% |
| Utilities | | 4,855 | 3,033 | 6,100 | 6,100 | 6,414 | 5.15% |
| Repair 8 | & Maintenance | 458,156 | 446,010 | 488,831 | 488,831 | 508,606 | 4.05% |
| Capital I | Expenditures | 209,044 | (265,878) | 11,747,412 | 12,049,665 | 5,706,136 | -51.43% |
| Full Tim | ne Equivalent Staff: | | | | | | |
| Personn | el allocated to programs | 19.67 | 19.69 | 19.66 | 19.66 | 19.76 | |

* % change from prior year adopted budget

Administration

Business Unit 5210

PROGRAM MISSION

To provide administrative and planning support to insure safe, reliable and environmentally sound stormwater management.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies #1: "Prompt delivery of excellent services", #2: "Encourage active community participation and involvement", #3: "Recognize and grow everyone's talents", #4: "Continually assess trends affecting the community and proactively respond", #6: "Create opportunities and learn from successes and failures", and #7: "Communicate our success through stories and testimonials".

Objectives:

Continue to educate the community on stormwater issues and assessment billing policies Insure that all construction and repair of our facilities is in compliance with the Department of Natural Resources regulations

Continue to research other funding sources for stormwater programs and submit requests when applicable Develop short and long range plans that meet regulations and provide for the stormwater needs of the community and the watershed

Continue to train employees on stormwater regulations

Show continual progress toward meeting TMDL water quality standards

Major changes in Revenue, Expenditures, or Programs:

Drainage studies have been completed for all major drainage areas in the City. Flood report analysis funds will be used to develop details and answer questions related to existing internal flood reports and to help refine and clarify existing study areas.

The increase in depreciation and interest expense is due to the expansion of infrastructure. As debt is issued each year to fund infrastructure costs interest expense continues to rise as the total debt issued is increasing each year; depreciation expense also increases as more infrastructure is added and the cost of the infrastructure is increasing each year.

| | | ICE INDICATOR | | | |
|--|--------------------|--------------------|-------------|----------------|--------------------|
| | <u>Actual 2015</u> | <u>Actual 2016</u> | Target 2017 | Projected 2017 | <u>Target 2018</u> |
| Client Benefits/Impacts | | | | | |
| Economic development | | | | | |
| Drainage Studies/Plans completed | | | | | |
| or updated | 0 | 0 | 1 | 2** | 0 |
| Strategic Outcomes | | | | | |
| Alternative sources of revenue | | | | | |
| # of grants applied for | 0 | 1 | 0 | 0 | 2*** |
| Value of grant dollars awarded or | | | | | |
| applied for future reimbursement | \$- | \$349,790* | \$- | \$- | \$- |
| Safe, reliable future level of service | | | | • | |
| Acre feet of storage identified for | | | | | |
| future use | 0.0 | 0.75 | 0.0 | 0.0 | 0.0 |
| # of DNR non-compliance notices | | | | | |
| received | 0 | 0 | 0 | 0 | 0 |
| Work Process Outputs | | | | | |
| Preventive maintenance of system | | | | | |
| Erosion control plans | | | | | |
| reviewed (permits) | 49 | 49 | 25 | 25 | 30 |
| | | | | | |

Northland Pond

** Evergreen/Alvin Study, Coop Pond Analysis

*** Leona Pond (NPS & MFC)

Administration

Business Unit 5210

PROGRAM BUDGET SUMMARY

| | | Ac | tual | | | | Budget | | |
|---|----------|------------------|-----------|-------------------|----|--------------------------------|-------------------|----------------|-------------------|
| Description | | 2015 | | 2016 | A | Adopted 2017 | Amended 2017 | 7 | 2018 |
| Revenues | | | | | | | | | |
| 4411 Sundry Permits | \$ | - | \$ | 25 | \$ | - | \$- | \$ | - |
| 4418 Plan Review Permit | | 37,079 | | 41,034 | | 30,000 | 30,000 | | 35,000 |
| 4420 Erosion Control | | 6,750 | | 6,450 | | 7,000 | 7,000 | | 7,000 |
| 4710 Interest on Investments | | 114,739 | | 83,128 | | 200,000 | 200,000 | | 200,000 |
| 4730 Interest - Deferred Special | | 3,202 | | 1,791 | | - | - | | - |
| 4880 Stormwater Revenue | | 9,123,964 | | 9,339,293 | | 9,361,845 | 9,361,845 | | 9,415,000 |
| 5021 Capital Contributions | | 509,100 | | 415,683 | | 461,966 | 461,966 | | 161,555 |
| 5035 Other Reimbursements | | 3,346 35,053 | | 7,649 | | - | - 27.000 | | 25 000 |
| 5071 Customer Penalty 5086 Premium on Debt Issue | | 123,563 | | 34,329 176,209 | | 37,000 172,754 | 37,000 172,754 | | 35,000 395,435 |
| 5925 Transfer in - Wastewater | | 500,000 | | 170,203 | | 172,754 | 172,754 | | |
| Total Revenue | \$ | 10,456,796 | \$ | 10,105,591 | \$ | 10,270,565 | \$ 10,270,565 | \$ | 10,248,990 |
| | <u> </u> | | <u> </u> | | | | + | - - | |
| Expenses | | | | | | | | | |
| 6101 Regular Salaries | \$ | 389,683 | \$ | 423,735 | \$ | 438,007 | \$ 439,404 | \$ | 439,954 |
| 6104 Call Time | | 420 | | 302 | | 700 | 700 | | 600 |
| 6105 Overtime | | 1,475 | | 755 | | 1,000 | 1,000 | | 1,000 |
| 6108 Part-Time | | 918 | | 424 | | 484 | 484 | | - |
| 6150 Fringes | | 119,028 | | 224,232 | | 150,201 | 150,408 | | 162,365 |
| 6201 Training\Conferences | | 7,596 | | 2,637 | | 7,500 | 7,500 | | 7,500 |
| 6206 Parking Permits 6301 Office Supplies | | 645 296 | | 684 294 | | 720 250 | 720 250 | | 720 250 |
| 6303 Memberships & Licenses | | 16,654 | | 13,100 | | 15.010 | 15,010 | | 15,015 |
| 6304 Postage/Freight | | 20,566 | | 18,264 | | 22,000 | 22,000 | | 22,000 |
| 6305 Awards & Recognition | | 665 | | 665 | | 665 | 665 | | 665 |
| 6309 Shop Supplies & Tools | | 132 | | 138 | | - | - | | - |
| 6315 Books & Library Materials | | | | - | | 100 | 100 | | 100 |
| 6320 Printing & Reproduction | | 3,326 | | 2,817 | | 3,300 | 3,300 | | 3,300 |
| 6321 Clothing | | 141 | | 161 | | 55 | 55 | | 150 |
| 6323 Safety Supplies | | 109 | | 352 | | 100 | 100 | | 350 |
| 6327 Miscellaneous Equipment | | 1,536 | | 2,964 | | 2,200 | 2,200 | | 2,200 |
| 6401 Accounting/Audit | | 9,808 | | 9,654 | | 9,900 | 9,900 | | 9,900 |
| 6402 Legal Fees | | 240 | | 510 | | 400 | 400 | | 400 |
| 6403 Bank Services | | 16,720 | | 16,653 | | 18,120 | 18,120 | | 18,120 |
| 6404 Consulting Services | | 139,453 | | 175,494 | | 231,800 | 239,711 | | 178,800 |
| 6412 Advertising 6413 Utilities | | 3,361 885 | | 849 | | 1,104 | 1,104 | | 1,104 |
| 6424 Software Support | | 9,746 | | 12,930 | | 15,005 | 15,005 | | 5,975 |
| 6425 CEA Equip. Rental | | 8,035 | | 7,604 | | 10,600 | 10,600 | | 10,600 |
| 6501 Insurance | | 33,534 | | 39,936 | | 47,000 | 47,000 | | 42,730 |
| 6599 Other Contracts/Obligations | | 35,325 | | 127,586 | | 10,460 | 10,460 | | 8,500 |
| 6601 Depreciation Expense | | 2,513,011 | | 2,473,940 | | 2,750,000 | 2,750,000 | | 2,825,000 |
| 6623 Uncollectable Accounts | | 1,651 | | 1,346 | | 2,000 | 2,000 | | 1,400 |
| 6720 Interest Payments | | 1,656,572 | | 1,641,736 | | 1,643,217 | 1,643,217 | | 1,722,007 |
| 6730 Debt Issuance Costs | | 127,924 | | 198,317 | | 100,000 | 100,000 | | 150,000 |
| 6751 Gain/Loss on refund Amort | | 41,127 | | 48,550 | | 61,400 | 61,400 | | 147,227 |
| 7911 Trans Out - General Fund | | 12,500 | | 12,500 | | 12,500 | 12,500 | | 12,500 |
| 7914 Transfer out - Capital Projects Total Expense | ¢ | 20,000 5,193,082 | ¢ | - | ¢ | 5,555,798 | - \$ 5,565,313 | ¢ | 5,790,432 |
| Total Expense | \$ | 5,195,062 | \$ | 5,459,129 | \$ | 5,555,796 | \$ 5,565,313 | \$ | 5,790,432 |
| DETAILED SUMMARY OF 2018 PROPO | SED | | UR | ES > \$15,00 | 0 | | | | |
| | • | | | | ~ | | | | |
| Memberships & Licenses | \$ | 250 | | | - | onsulting Servic | | | |
| IECA Membership NR216 Annual Fee | | 8,000 | | | | Stormwater ma | anagement | ¢ | 50,000 |
| NEWSC Dues | | 3,300 2,000 | | | | olan reviews Flooding conce | rne | \$ | 50,000 |
| MEG Membership | | 2,000 | | | | area study | :115 | | 50,000 |
| ASCIS Membership | | 600 | | | | _eague of Mun | icinalities | | 2,000 |
| League of Municipalities SW | | 340 | | | | VR216 permitti | | | 33,000 |
| APWA Membership | \$ | 15,015 | - | | | Netland studie | | | 11,000 |
| F | <u>_</u> | 10,010 | - | | | Water quality n | | | 32,800 |
| Postage & Freight | | | | | | | - 3 | \$ | 178,800 |
| City Service Invoice postage | \$ | 20,700 | | | | | | _ | |
| City Service Invoice folding/ | | | | | | | | | |
| inserting | | 1,300 | _ | | | | | | |
| | \$ | 22,000 | = | | | | | | |
| | | | | | | | | | |

Facility Maintenance

Business Unit 5220

PROGRAM MISSION

To plan and implement a maintenance program that keeps the stormwater system in a safe and environmentally sound condition.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies #1: "Prompt delivery of excellent services", #4: "Continually assess trends affecting the community and proactively respond", #6: "Create opportunities and learn from successes and failures", and #7: "Communicate our success through stories and testimonials".

Objectives:

Continue to have a proactive maintenance program to identify major repair areas

Reduce the number of failures and insure the system is operating properly

Encourage good housekeeping practices on private developments, which will reduce the City's maintenance cost and improve water quality

Reduce the response time per facility through an effective maintenance program

Implement adaptive management plans for stormwater facilities to improve management techniques and response times for facilities maintenance

Major changes in Revenue, Expenditures, or Programs:

The amount budgeted in equipment repair and maintenance is to be used for preventive maintenance for the Rover X sewer camera to extend the life of the camera.

| | Actual 2015 | CE INDICATOR Actual 2016 | | Projected 2017 | Target 2018 |
|---------------------------------------|--|--|---------------------|----------------|-------------|
| Client Benefits/Impacts | <u>/////////////////////////////////////</u> | <u>/////////////////////////////////////</u> | <u>ranget ze rr</u> | | |
| Benefit of inspection program | | | | | |
| # of spot repairs identified | | | | | |
| from TV reports | 5 | 21 | 20 | 20 | 18 |
| Compliance with regulation | Ũ | | 20 | 20 | 10 |
| # of protruding taps identified | 5 | 15 | 15 | 15 | 13 |
| # of cross connections identified | 0 | 0 | 0 | 0 | 0 |
| | °, | Ŭ | Ũ | Ŭ | Ũ |
| Strategic Outcomes | | | | | |
| Effectiveness of maintenance program | | | | | |
| # of trouble calls | 19 | 28 | 20 | 20 | 15 |
| % of total system televised | 10% | 10% | 9% | | 9% |
| , | | | | | |
| Work Process Outputs | | | | | |
| Preventive maintenance | | | | | |
| Cubic yards of material collected | | | | | |
| from street sweeping operations | 5,565 | 4,059 | 4,000 | 4,000 | 4,000 |
| % of total storm sewer system cleaned | 11.3% | 11.1% | 13.0% | 13.0% | 13.0% |
| Safeguarding health and safety | | | | | |
| # of protruding taps removed | 23 | 0** | 13 | 13 | 10 |
| # of spot repairs made | 37 | 0** | 18 | 18 | 15 |

** Timing of contract pushes work into next calendar year (2017)

Facility Maintenance

Business Unit 5220

PROGRAM BUDGET SUMMARY

| | | Act | tual | | | | | Budget | | |
|--|-----|-----------|------------|------------------------|-----------|---------------|-------|--------------|------|-------------|
| Description | | 2015 | | 2016 | Ac | dopted 2017 | Am | ended 2017 | | 2018 |
| Revenues | | | | | | | | | | |
| 4801 Charges for Serv Nontax | \$ | 1,235 | \$ | 3,948 | \$ | - | \$ | - | \$ | - |
| Total Revenue | \$ | 375 | \$ | 3,948 | \$ | - | \$ | - | \$ | - |
| Expenses | | | | | | | | | | |
| 6101 Regular Salaries | \$ | 420,494 | \$ | 414,241 | \$ | 450,613 | \$ | 452,456 | \$ | 457,911 |
| 6104 Call Time | | 2,260 | | 1,567 | | 1,600 | | 1,600 | | 1,600 |
| 6105 Overtime | | 10,925 | | 15,974 | | 9,300 | | 9,300 | | 9,800 |
| 6108 Part-Time | | 5,604 | | 4,998 | | 11,700 | | 11,700 | | 11,748 |
| 6150 Fringes | | 160,276 | | 178,081 | | 170,904 | | 171,178 | | 194,143 |
| 6201 Training\Conferences | | 150 | | - | | - | | - | | - |
| 6308 Landscape Supplies | | 2,997 | | 10,845 | | 3,860 | | 3,860 | | 6,360 |
| 6309 Shop Supplies & Tools | | 2,856 | | 607 | | 2,950 | | 2,950 | | 2,250 |
| 6316 Miscellaneous Supplies | | 147 | | - | | - | | - | | - |
| 6323 Safety Supplies | | 521 | | - | | - | | - | | - |
| 6325 Construction Materials | | 61,305 | | 71,632 | | 78,000 | | 78,000 | | 71,510 |
| 6327 Miscellaneous Equipment | | 6,774 | | 5,259 | | 12,450 | | 12,450 | | 7,200 |
| 6404 Consulting Services | | 229,351 | | 236,013 | | 262,960 | | 262,960 | | 181,500 |
| 6408 Contractor Fees | | 97,993 | | 34,305 | | 100,000 | | 100,000 | | 48,600 |
| 6413 Utilities | | 3,913 | | 1,804 | | 3,496 | | 3,496 | | 4,810 |
| 6415 Tipping Fees | | 50,307 | | 31,176 | | 50,000 | | 50,000 | | 50,000 |
| 6418 Equipment Repair & Maint | | - | | - | | - | | - | | 1,100 |
| 6420 Facilities Charges | | 2,339 | | - | | 2,406 | | 2,406 | | 2,406 |
| 6424 Software Support | | - | | 64 | | 500 | | 500 | | - |
| 6425 CEA Equip. Rental | | 229,288 | | 222,750 | | 249,411 | | 249,411 | | 267,641 |
| 6454 Grounds Repair & Maint. | | 782 | | 2,923 | | 2,000 | | 2,000 | | 2,000 |
| 6503 Rent | | 55,210 | | 55,710 | | 55,210 | | 55,210 | | 55,210 |
| 6899 Other Capital Outlay | | (8,890) | • | - | • | - | • | - | • | - |
| Total Expense | \$ | 1,334,602 | \$ | 1,287,949 | \$ | 1,467,360 | \$ | 1,469,477 | \$ | 1,375,789 |
| DETAILED SUMMARY OF 2018 PROPO | SED | EXPENDI | TUR | <u>ES > \$15,00</u> | <u>00</u> | | | | | |
| Consulting Services | | | | | Re | ent | | | | |
| Ecology services for prairie & wetlands | \$ | 85,000 | | | L | and for dete | ntior | n ponds: | | |
| Stormsewer TV & cleaning | | 77,500 | | | | Appleton M | emo | rial Park (@ | \$2, | 800 / acre) |
| Ecology services for ditches & ravines | | 19,000 | | | | AMP Nort | h, 7 | .28 acres | \$ | 20,400 |
| | \$ | 181,500 | | | | AMP Sou | | | | 19,600 |
| | | | | | | Reid Golf C | ours | se Pond (per | agr | |
| Contractor Fees | | | | | | 7.2 acres | | | | 15,210 |
| Surface restoration | \$ | 26,600 | | | | | | | \$ | 55,210 |
| Spot repairs | | 10,000 | | | _ | | | | | |
| Animal control | | 4,000 | | | | nstruction M | ateri | <u>als</u> | | |
| Ditches & ravine repairs | | 1,000 | | | | Castings | | | \$ | 28,000 |
| Emergency Repairs | | 5,000 | | | | Concrete | | | | 25,000 |
| Non-native mowing | | 2,000 | | | | Gravel | | | | 5,000 |
| | \$ | 48,600 | | | | Piping | | | | 4,000 |
| | | | | | | Clear Stone | | | | 2,010 |
| Tipping Fees | | | | | (| Other materia | ls | | | 7,500 |
| Disposal costs of cleaning: \$35 per ton | ٠ | 07 7 40 | | | | | | | \$ | 71,510 |
| Streets - 1,020 tons | \$ | 37,740 | | | | | | | | |
| Storm sewers - 280 tons | | 10,360 | | | | | | | | |
| Concrete | • | 1,900 | | | | | | | | |
| | \$ | 50,000 | | | | | | | | |
| | | | | | | | | | | |

Business Unit 5225

Leaf Collection

PROGRAM MISSION

Collect leaves from city streets and dispose of them in a safe and environmentally productive manner

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies #1: "Prompt delivery of excellent services", #4: "Continually assess trends affecting the community and proactively respond", #6: "Create opportunities and learn from successes and failures", and #7: "Communicate our success through stories and testimonials".

Objectives:

Continually search for ways to improve communication with the public on leaf collection schedules

Research and evaluate alternative methods of leaf collection and long term disposal

Adjust leaf collection routes to avoid picking up leaves on the same day as collecting refuse

Minimize secondary hauling costs of leaves, transporting to Outagamie County compost site, hauling to farm fields and grinding into mulch by working with a composting company

Major changes in Revenue, Expenditures, or Programs:

Actual leaf collections vary from year to year depending on the weather. It is projected to complete three cycles of collection in 2018. The cost per cubic yard collected is based more on the condition of leaves collected than the number of cycles (wet soggy vs. dry fluffy).

| | | | - | NDICATOR | - | | | | _ | |
|--|------------|-----------------|-----------|-----------|-----------|-----------|-------------|------------|------------|-----------------|
| Client Benefits/Impacts | <u>Act</u> | <u>ual 2015</u> | <u>Ac</u> | tual 2016 | <u>Ta</u> | rget 2017 | <u>Proj</u> | ected 2017 | <u>Tar</u> | <u>get 2018</u> |
| Service provided Number of collection cycles | | 5 | | 4 | | 3 | | 3 | | 3 |
| Strategic Outcomes | | - | | | | - | | - | | - |
| Cost effective service provided Cost/cubic yard collected | \$ | 11.00 | \$ | 11.36 | \$ | 11.75 | \$ | 11.75 | \$ | 12.00 |
| Work Process Outputs | | | | | | | | | | |
| Safer streets and cleaner storm water syste Cubic yards of leaves collected | em | 37,100 | | 38,440 | | 35,000 | | 35,000 | | 35,000 |
| | | | | | | | | | | |

Leaf Collection

Business Unit 5225

PROGRAM BUDGET SUMMARY

| | Ac | tual | | | | | Budget | |
|------------------------|---------------|------|---------|----|------------|----|------------|---------------|
| Description | 2015 | | 2016 | Ad | opted 2017 | Am | ended 2017 | 2018 |
| Expenses | | | | | | | | |
| 6101 Regular Salaries | \$ 145,131 | \$ | 154,821 | \$ | 170,564 | \$ | 171,854 | \$ 172,294 |
| 6104 Call Time | 86 | | 81 | | 100 | | 100 | 100 |
| 6105 Overtime | 12,078 | | 14,222 | | 7,500 | | 7,500 | 10,000 |
| 6108 Part-Time | 112 | | - | | - | | - | - |
| 6150 Fringes | 55,390 | | 69,566 | | 46,992 | | 47,184 | 54,384 |
| 6408 Contractor Fees | 6,962 | | 100 | | - | | - | |
| 6413 Utilities | 57 | | 380 | | 1,500 | | 1,500 | 500 |
| 6425 CEA Equip. Rental | 207,393 | | 197,729 | | 197,919 | | 197,919 | 207,894 |
| Total Expense | \$ 427,209 | \$ | 436,899 | \$ | 424,575 | \$ | 426,057 | \$ 445,172 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

<u>None</u>

Capital Construction

Business Unit 5230

PROGRAM MISSION

Design, build, and replace stormwater facilities for the current users to insure compliance with established regulations, to protect surrounding infrastructure and the environment, to increase the acres of land available for development and to prevent major system failures.

Link to City Goals:

PROGRAM NARRATIVE

Implements Key Strategies #1: "Prompt delivery of excellent services", #2: "Encourage active community participation and involvement", #4: "Continually assess trends affecting the community and proactively respond", #6: "Create opportunities and learn from successes and failures", and #7: "Communicate our success through stories and testimonials".

Objectives:

Continue to inform property owners of future construction in a timely manner

Design projects to meet regulations and provide cost effective solutions for the community and the watershed

Monitor projects to insure compliance with deadlines, specifications, and regulations

Comply with the NR216 Stormwater permit requirements

Continue implementing the Citywide stormwater management plan and regional flood studies selected alternatives

Major changes in Revenue, Expenditures, or Programs:

Included funds for purchase of land for proposed Leona Street stormwater pond, to help meet flood reduction and water quality goals (construction planned for 2019).

Included funds for reconstruction of Ballard Road storm sewer south of Wisconsin Avenue to help meet flood reduction goals.

Included funds for new storm sewers and stormwater management facilities for urbanization of Alvin Street and Evergreen Drive east of STH 47.

Included funds for storm sewers and box culvert construction in Spartan Drive from STH 47 to Haymeadow Avenue.

Please see the Stormwater 5-year capital improvement plan on page 582 for further details.

| | Actual 2015 | Actual 2016 | Target 2017 | Projected 2017 | Target 2018 |
|---------------------------------------|-------------|-------------|-------------|----------------|-------------|
| Client Benefits/Impacts | | | | | |
| Solutions to system discrepancies | | | | | |
| Residential mini-sewer/drainage | | | | | |
| complaints: * | | | | | |
| Solved | 99 | 63 | 100 | 100 | 100 |
| Outstanding | 95 | 52 | 110 | 110 | 95 |
| Strategic Outcomes | | | | | |
| Improvements to the stormwater system | | | | | |
| Total miles of storm sewer in City | 285 | 286 | 288 | 288 | 289 |
| % of total miles reconstructed | 0.29% | 0.49% | 1.52% | 1.52% | 0.61% |
| Acres of new land available | 0 | 0 | 0 | 0 | 0 |
| Integrity and growth of the system | | | | | |
| ACRE-FT of storage developed | 3.5 | 0.0 | 26.7 | 26.7 | 2** |
| Work Process Outputs | | | | | |
| Restoration of storm sewers | | | | | |
| Miles of storm sewer reconstructed | 0.85 | 1.42 | 4.38 | 4.38 | 1.75 |
| Expansion of storm sewer system | | | | | |
| Miles of new storm sewer added | 0.34 | 0.58 | 1.08 | 1.08 | 1.54 |

* Order of resolution of residential drainage complaints is dependent on severity of problem and ability/timing preference of project coordinator to schedule.

** Evergreen/Alvin Drainage Study Area

Capital Construction

Business Unit 5230

PROGRAM BUDGET SUMMARY

| | Act | tual | | | | | Budget | |
|------------------------------------|---------------|------|-------------|----|--------------|----|-------------|-----------------|
| Description | 2015 | | 2016 | A | Adopted 2017 | | nended 2017 | 2018 |
| Expenses | | | | | | | | |
| 6101 Regular Salaries | \$ 41,428 | \$ | 53,697 | \$ | 162,265 | \$ | 162,754 | \$ 169,024 |
| 6105 Overtime | 4,147 | | 4,501 | | 6,777 | | 6,777 | 4,143 |
| 6108 Part-Time | 1,554 | | 924 | | 2,073 | | 2,073 | 2,854 |
| 6150 Fringes | 11,849 | | 24,651 | | 67,152 | | 67,225 | 75,977 |
| 6308 Landscape Supplies | 663 | | - | | - | | - | |
| 6325 Construction Materials | 170 | | 417 | | - | | - | |
| 6328 Signs | - | | - | | - | | - | |
| 6404 Consulting Services | 291,929 | | 203,678 | | 445,000 | | 839,121 | 130,000 |
| 6408 Contractor Fees | 180 | | - | | - | | 65,181 | |
| 6414 Advertising | - | | 92 | | - | | - | |
| 6420 Facilities Charges | - | | - | | - | | - | |
| 6425 CEA Equip. Rental | - | | (3) | | 10,990 | | 10,990 | 10,990 |
| 6454 Grounds Repair & Maintenance | - | | 2,013 | | - | | - | |
| 6599 Other Contracts / Obligations | 1,543 | | 435,649 | | - | | - | |
| 6801 Land | 216,917 | | 80,020 | | 526,000 | | 593,100 | 430,000 |
| 6809 Infrastructure Construction | 3,799,953 | | 2,441,123 | | 11,221,412 | | 11,456,565 | 5,276,136 |
| 6899 Other Capital Outlay | (3,798,935) | | (2,764,548) | | - | | - | |
| Total Expense | \$ 571,398 | \$ | 482,214 | \$ | 12,441,669 | \$ | 13,203,786 | \$ 6,099,124 |

DETAILED SUMMARY OF 2018 PROPOSED EXPENDITURES > \$15,000

| 2018 | То | From | То | Storm- water Utility |
|---|------------------------|----------------------------|----------------------|----------------------------|
| Labor Pool | 10 | 110111 | 10 | 251,99 |
| CEA | | | | 10,99 |
| | | | | |
| Consulting Services | Construction Service | s | | 50,00 |
| | Grant Applications | | | 10,00 |
| | Land Acquisition Ser | | | 10,00 |
| | Modeling for Storm S | Sewer Const Projects | | 60,00 |
| | Subtotal | | | 130,00 |
| Land Acquisition | Leona Street Pond (I | Part 2) | | 200.00 |
| | | BMP 6-7, Apple Creek | Culvert) | 80,00 |
| | Alvin Street | | | 100,00 |
| | Wetlands In-Lieu Fee | 25 | | 50,00 |
| | Subtotal | | | 430,00 |
| | oubioid. | | | , |
| Miscellaneous Construction | Sump Pump Storm S | Sewer Program/Backya | rd Drainage Problems | 200,00 |
| | Surface restoration fe | or mini sewer from prev | ious year | 85,00 |
| | Surface restoration L | inwood storm sewer No | orthland Pond | 300,00 |
| | Storm Laterals, Man | holes, Inlets, Mini's Prio | r to 2018 Asphalt | 262,09 |
| | Storm Laterals, Man | holes, Inlets, Mini's Prio | r to 2018 Concrete | 37,03 |
| | Flood Reduction Pro | jects | | 50,00 |
| | Native Landscaping | | | 50,00 |
| | NR151 Water Quality | Practices - Reconsts | | 50,00 |
| | Spartan Ave Box Cu | lvert 1 by Lift Station | | 175,00 |
| | Subtotal | | | 1,209,12 |
| | | | | |
| New construction | Alvin St | Evergreen Dr | cds | 250,00 |
| | Evergreen Dr | Richmond St (STH 47 | | 550,00 |
| | Haymeadow Ave | Bluewater Way | Spartan Ave | 71,25 |
| | Spartan Ave | Haymeadow Ave | e/o | 67,50 |
| | Spartan Ave | Richmond St | Haymeadow Ave | 225,00 |
| | Subtotal | | | 1,163,75 |
| Reconstruction | Ballard Rd | Wisconsin Ave | Fox River | 2,010,00 |
| - | Subtotal | | - | 2,010,00 |
| Reconstruction - (on streets to be paved in 2019) | Center St | North St | Atlantic St | 80,77 |
| | Hall St | Woodland Ave | Grant St | 66,36 |
| | Roosevelt St | Morrison St | Durkee St | 48,10 |
| | Summit St | Spencer St | College Ave | 147,62 |
| | Telulah Ave | Calumet St | John St | 550,40 |
| | Subtotal | Salamot Ot | 55.m 6t | 893,20 |
| | | | | 000,20 |
| Total | | 1 | 1 | \$ 6,099,12 |

City of Appleton 2018 Budget Revenue and Expense Summary

| Description REVENUES Permits Interest Income Charges for Services Intergov. Charges for Service Other Revenues TOTAL REVENUES EXPENSES BY LINE ITEM Regular Salaries Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences Parking Permits | 2015 Actual 43,829 117,941 9,124,634 564 1,171,063 10,458,031 110,319 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 10,959- | 2016 Actual 47,509 84,919 9,342,501 740 633,870 10,109,539 113,130 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 102,561 | 2017 YTD Actual 27,570 223,858 6,428,433 152 322,577 7,002,590 86,297 607,413 1,492 20,899 0 10,422 2,540 | 0 671,720 | 144,615 1,076,388 2,400 24,577 0 | 2018 Requested Budget | 2018 Adopted Budget 42,000 200,000 9,415,000 0 591,990 10,248,990 143,186 1,090,352 2,300 24,943 |
|---|---|---|---|---|--|---|--|
| Permits Interest Income Charges for Services Intergov. Charges for Service Other Revenues TOTAL REVENUES EXPENSES BY LINE ITEM Regular Salaries Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 117,941 9,124,634 564 1,171,063 10,458,031 10,458,031 10,458,031 110,319 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 84,919 9,342,501 740 633,870 10,109,539 113,130 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 | 223,858 6,428,433 152 322,577 7,002,590 86,297 607,413 1,492 20,899 0 10,422 2,540 | 200,000 9,361,845 0 671,720 10,270,565 1,076,388 2,400 24,577 0 | 200,000 9,361,845 0 671,720 10,270,565 1,076,388 2,400 24,577 0 | 200,000 9,432,370 0 372,795 10,047,190 143,186 1,090,352 2,300 | 200,000 9,415,000 0 591,990 10,248,990 143,186 1,090,352 2,300 |
| Permits Interest Income Charges for Services Intergov. Charges for Service Other Revenues TOTAL REVENUES EXPENSES BY LINE ITEM Regular Salaries Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 117,941 9,124,634 564 1,171,063 10,458,031 10,458,031 10,458,031 110,319 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 84,919 9,342,501 740 633,870 10,109,539 113,130 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 | 223,858 6,428,433 152 322,577 7,002,590 86,297 607,413 1,492 20,899 0 10,422 2,540 | 200,000 9,361,845 0 671,720 10,270,565 1,076,388 2,400 24,577 0 | 200,000 9,361,845 0 671,720 10,270,565 1,076,388 2,400 24,577 0 | 200,000 9,432,370 0 372,795 10,047,190 143,186 1,090,352 2,300 | 200,000 9,415,000 0 591,990 10,248,990 143,186 1,090,352 2,300 |
| Interest Income Charges for Services Intergov. Charges for Service Other Revenues TOTAL REVENUES EXPENSES BY LINE ITEM Regular Salaries Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 117,941 9,124,634 564 1,171,063 10,458,031 10,458,031 10,458,031 110,319 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 84,919 9,342,501 740 633,870 10,109,539 113,130 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 | 223,858 6,428,433 152 322,577 7,002,590 86,297 607,413 1,492 20,899 0 10,422 2,540 | 200,000 9,361,845 0 671,720 10,270,565 1,076,388 2,400 24,577 0 | 200,000 9,361,845 0 671,720 10,270,565 1,076,388 2,400 24,577 0 | 200,000 9,432,370 0 372,795 10,047,190 143,186 1,090,352 2,300 | 200,000 9,415,000 0 591,990 10,248,990 143,186 1,090,352 2,300 |
| Charges for Services Intergov. Charges for Service Other Revenues TOTAL REVENUES EXPENSES BY LINE ITEM Regular Salaries Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 9,124,634 564 1,171,063 10,458,031 10,458,031 10,458,031 110,319 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 9,342,501 740 633,870 10,109,539 113,130 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 | 6,428,433 152 322,577 7,002,590 86,297 607,413 1,492 20,899 0 10,422 2,540 | 9,361,845 0 671,720 10,270,565 139,596 1,076,388 2,400 24,577 0 | 9,361,845 0 671,720 10,270,565 1,44,615 1,076,388 2,400 24,577 0 | 9,432,370 0 372,795 10,047,190 143,186 1,090,352 2,300 | 9,415,000 0 591,990 10,248,990 143,186 1,090,352 2,300 |
| Intergov. Charges for Service Other Revenues TOTAL REVENUES EXPENSES BY LINE ITEM Regular Salaries Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 564 1,171,063 10,458,031 110,319 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 740 633,870 10,109,539 113,130 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 | 152 322,577 7,002,590 86,297 607,413 1,492 20,899 0 10,422 2,540 | 0 671,720 10,270,565 1,076,388 2,400 24,577 0 | 0 671,720 10,270,565 1,076,388 2,400 24,577 0 | 0 372,795 10,047,190 143,186 1,090,352 2,300 | 0 591,990 |
| Other Revenues TOTAL REVENUES EXPENSES BY LINE ITEM Regular Salaries Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 1,171,063 10,458,031 110,319 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 633,870 10,109,539 113,130 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 | 322,577 7,002,590 86,297 607,413 1,492 20,899 0 10,422 2,540 | 671,720 | 671,720 | 372,795 10,047,190 143,186 1,090,352 2,300 | 591,990 10,248,990 143,186 1,090,352 2,300 |
| EXPENSES BY LINE ITEM Regular Salaries Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 110,319 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 113,130 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 | 86,297 607,413 1,492 20,899 0 10,422 2,540 | 139,596 1,076,388 2,400 24,577 0 | 144,615 1,076,388 2,400 24,577 0 | 143,186 1,090,352 2,300 | 143,186 1,090,352 2,300 |
| Regular Salaries Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 | 607,413 1,492 20,899 0 10,422 2,540 | 1,076,388 2,400 24,577 0 | 1,076,388 2,400 24,577 0 | 1,090,352 2,300 | 1,090,352 2,300 |
| Labor Pool Allocations Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 758,948 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 778,656 1,950 35,453 0 6,346 2,900 1,294 47,952 | 607,413 1,492 20,899 0 10,422 2,540 | 1,076,388 2,400 24,577 0 | 1,076,388 2,400 24,577 0 | 1,090,352 2,300 | 1,090,352 2,300 |
| Call Time Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 2,765 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 1,950 35,453 0 6,346 2,900 1,294 47,952 | 1,492 20,899 0 10,422 2,540 | 2,400 24,577 0 | 2,400 24,577 0 | 2,300 | 2,300 |
| Overtime Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 28,624 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 35,453 0 6,346 2,900 1,294 47,952 | 20,899 0 10,422 2,540 | 24,577 0 | 24,577 0 | | |
| Temp. Full-Time Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 2,434 5,754 23,149 1,437 6,138 96,746 357,503 | 0 6,346 2,900 1,294 47,952 | 0 10,422 2,540 | 0 | 0 | 24,943 | 24.943 |
| Part-Time Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 5,754 23,149 1,437 6,138 96,746 357,503 | 6,346 2,900 1,294 47,952 | 10,422 2,540 | | | | |
| Other Compensation Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 23,149 1,437 6,138 96,746 357,503 | 2,900 1,294 47,952 | 2,540 | 14,257 | | 0 | 0 |
| Shift Differential Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 1,437 6,138 96,746 357,503 | 1,294 47,952 | | 2 88 | 14,257 | 14,602 | 14,602 |
| Sick Pay Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 6,138 96,746 357,503 | 47,952 | | 3,775 1,690 | 3,775 | 3,955 | 3,955 |
| Vacation Pay Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 96,746 357,503 | | 948 3,921 | 1,690 0 | 1,690 0 | 1,690 0 | 1,690 0 |
| Fringes Pension Expense / Revenue Salaries & Fringe Benefits Training & Conferences | 357,503 | | 67,692 | 0 | 0 | 0 | 0 |
| Pension Expense / Revenue | | 407,066 | 294,270 | 435,249 | | | |
| Training & Conferences | | 89,464 | 0 | 0 | 0 | 0 | 0 |
| | 1,382,858 | 1,586,772 | 1,095,894 | 1,697,932 | 1,703,697 | 1,767,897 | 1,767,897 |
| Darking Dermits | 7,746 | 2,637 | 3,000 | 7,500 | 7,500 | 7,500 | 7,500 |
| - | 645 | 684 | 720 | 720 | 720 | 720 | 720 |
| Office Supplies | 296 | 294 | 106 | 250 | 250 | 250 | 250 |
| Memberships & Licenses | 16,654 | 13,100 | 13,875 | 15,010 | 15,010 | 15,015 | 15,015 |
| Postage & Freight | 20,566 | 18,264 | 11,409 | 22,000 | 22,000 | 22,000 | 22,000 |
| Awards & Recognition Insurance | 665 33,534 | 665 39,936 | 107 35,254 | 665 47,000 | 665 47,000 | 665 45,830 | 665 42,730 |
| Rent | 55,210 | 55,710 | 55,254 | 55,210 | 55,210 | 55,210 | 55,210 |
| Depreciation Expense | 2,513,011 | 2,473,941 | 1,893,870 | 2,750,000 | 2,750,000 | 2,585,160 | 2,825,000 |
| Uncollectible Accounts | 1,651 | 1,346 | 830 | 2,000 | 2,000 | 1,400 | 1,400 |
| Interest Payments | 1,656,572 | 1,641,736 | 1,207,170 | 1,643,217 | 1,643,217 | 1,752,156 | 1,722,007 |
| Debt Issuance Costs | 127,924 | 198,317 | 0 | 100,000 | 100,000 | 100,000 | 150,000 |
| Gain/Loss on Refund Amort. | 41,127 | 48,550 | 102,087 | 61,400 | 61,400 | 61,400 | 147,227 |
| Trans Out - General Fund | 12,500 | 12,500 | 9,375 | 12,500 | 12,500 | 12,500 | 12,500 |
| Trans Out - Capital Projects | 20,000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Administrative Expense | 4,508,101 | 4,507,680 | 3,333,013 | 4,717,472 | 4,717,472 | 4,659,806 | 5,002,224 |
| Landscape Supplies Shop Supplies & Tools | 3,660 2,988 | 10,846 745 | 946 1,870 | 3,860 2,950 | 3,860 2,950 | 6,360 2,250 | 6,360 2,250 |
| Books & Library Materials | 2,900 | 0 | 1,870 | 100 | 100 | 100 | 100 |
| Miscellaneous Supplies | 147 | 0 | 90 | 0 | 0 | 0 | 0 |
| Printing & Reproduction | 3,326 | 2,817 | 2,131 | 3,300 | 3,300 | 3,300 | 3,300 |
| Clothing | 141 | 161 | 113 | 55 | 55 | 150 | 150 |
| Safety Supplies | 630 | 352 | 732 | 100 | 100 | 350 | 350 |
| Construction Materials | 61,475 | 72,049 | 36,608 | 78,000 | 78,000 | 76,010 | 71,510 |
| Miscellaneous Equipment | 8,310 | 8,223 | 7,877 | 14,650 | 14,650 | 9,400 | 9,400 |
| Supplies & Materials | 80,677 | 95,193 | 50,367 | 103,015 | 103,015 | 97,920 | 93,420 |
| Accounting/Audit | 9,808 240 | 9,654 510 | 0 150 | 9,900 400 | 9,900 400 | 9,900 400 | 9,900 400 |
| Legal Fees Bank Services | 16,720 | 16,653 | 10,498 | 18,120 | 18,120 | 18,120 | 18,120 |
| Consulting Services | 660,734 | 637,658 | 363,106 | 939,760 | 1,341,792 | 596,760 | 490,300 |
| Contractor Fees | 107,924 | 34,405 | 62,699 | 100,000 | 165,181 | 104,600 | 48,600 |
| Advertising | 0 | 92 | 0 | 0 | 0 | 0 | 0 |
| Tipping Fees Other Contracts/Obligations | 50,307 36,868 | 31,176 563,235 | 42,150 11,222 | 50,000 10,460 | 50,000 10,460 | 50,000 8,500 | 50,000 8,500 |
| Purchased Services | 882,601 | 1,293,383 | 489,825 | 1,128,640 | 1,595,853 | 788,280 | 625,820 |
| | 288 | 274 | 151 | 306 | 306 | 310 | 310 |
| Flectric | 400 | 1,911 | 2,351 | 4,690 | | | 210 |
| Electric Water | 3,683 | | 2,001 | | 4,690 | 5,000 | 5,000 |

City of Appleton 2018 Budget Revenue and Expense Summary

| Description | 2015 Actual | 2016 Actual | 2017 YTD Actual | 2017 Adopted Budget | 2017 Amended Budget | 2018 Requested Budget | 2018 Adopted Budget |
|-------------------------------|----------------|----------------|--------------------|---------------------------|---------------------------|-----------------------------|---------------------------|
| Cellular Telephone | 240 | 240 | 180 | 264 | 264 | 264 | 264 |
| Utilities | 4,855 | 3,034 | 3,256 | 6,100 | 6,100 | 6,414 | 6,414 |
| Equipment Repair & Maintenanc | 572 | 0 | 1,202 | 0 | 0 | 0 | 1,100 |
| Facilities Charges | 2,339 | 0 | 0 | 2,406 | 2,406 | 2,406 | 2,406 |
| Software Support | 9,746 | 12,994 | 10,481 | 15,505 | 15,505 | 15,975 | 5,975 |
| CEA Equipment Rental | 444,716 | 428,080 | 246,291 | 468,920 | 468,920 | 497,125 | 497,125 |
| Grounds Repair & Maintenance | 782 | 4,936 | 2,832 | 2,000 | 2,000 | 2,000 | 2,000 |
| Repair & Maintenance | 458,155 | 446,010 | 260,806 | 488,831 | 488,831 | 517,506 | 508,606 |
| Land | 216,917 | 80,020 | 0 | 526,000 | 593,100 | 330,000 | 430,000 |
| Infrastructure Construction | 3,799,953 | 2,441,123 | 5,917,674 | 11,221,412 | 11,456,565 | 5,376,136 | 5,276,136 |
| Other Capital Outlay | 3,807,826- | 2,787,022- | 0 | 0 | 0 | 0 | 0 |
| Capital Expenditures | 209,044 | 265,879- | 5,917,674 | 11,747,412 | 12,049,665 | 5,706,136 | 5,706,136 |
| TOTAL EXPENSES | 7,526,291 | 7,666,193 | 11,150,835 | 19,889,402 | 20,664,633 | 13,543,959 | 13,710,517 |
| | | | | | | | |

CITY OF APPLETON 2018 BUDGET STORMWATER UTILITY STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET ASSETS

| Revenues | 2015 Actual | 2016 Actual | 2017 Budget | 2017 Projected | 2018 Budget |
|--|--|---|--|---|---|
| Charges for Services Miscellaneous Total Revenues | \$ 9,123,964 83,464 9,207,428 | \$ 9,339,293 93,435 9,432,728 | \$ 9,361,845 74,000 9,435,845 | \$ 9,371,460 74,000 9,445,460 | \$ 9,415,000 77,000 9,492,000 |
| Expenses | | | | | |
| Operating Expenses Depreciation Total Expenses | 3,155,156 2,513,011 5,668,167 | 3,291,148 2,473,940 5,765,088 | 2,880,616 2,750,000 5,630,616 | 3,273,730 2,670,000 5,943,730 | 3,254,659 2,825,000 6,079,659 |
| Operating Income (Loss) | 3,539,261 | 3,667,640 | 3,805,229 | 3,501,730 | 3,412,341 |
| Non-Operating Revenues (Expenses) | | | | | |
| Interest Income Interest Expense Gain/Loss on Refunding Amortization of Premium on Debt Issue Debt Expense Other | 117,941 (1,656,573) (41,127) 123,563 (127,924) | 84,919 (1,641,736) (48,550) 176,209 (198,317) | 200,000 (1,643,217) (61,400) 172,754 (100,000) | 200,000 (1,640,310) (136,117) 405,852 (100,000) | 200,000 (1,722,007) (147,227) 395,435 (150,000) |
| Total Non-Operating | (1,584,120) | (1,627,475) | (1,431,863) | (1,270,575) | (1,423,799) |
| Income (Loss) Before Contributions and Transfers | 1,955,141 | 2,040,165 | 2,373,366 | 2,231,155 | 1,988,542 |
| Transfers In (Out) | | | | | |
| Capital Contributions Transfer In - Wastewater Transfer Out - Capital Projects | 509,100 500,000 | 415,683 | 461,966 - | 600,056 - | 161,555 - |
| Transfer Out - General Fund | (32,500) | (12,500) | (12,500) | (12,500) | (12,500) |
| Change in Net Assets | 2,931,741 | 2,443,348 | 2,822,832 | 2,818,711 | 2,137,597 |
| Total Net Assets - Beginning | 63,951,534 | * 66,883,275 | 69,326,623 | 69,326,623 | 72,145,334 |
| Total Net Assets - Ending | \$ 66,883,275 | \$ 69,326,623 | \$ 72,149,455 | \$ 72,145,334 | \$ 74,282,931 |
| * as restated | SCHEDUL | E OF CASH FL | ows | | |
| Cash - Beginning of the Year + Change in Net Assets + Depreciation + Long Term Debt - Contributed Capital - Fixed Assets - Principal Repayment | | | | 14,009,166 2,818,711 2,670,000 5,000,000 (600,056) (12,703,786) (2,620,000) | 8,574,035 2,137,597 2,825,000 4,200,000 (161,555) (5,599,124) (3,235,000) |

Working Cash - End of Year

The current annual rate of \$155.00 per ERU became effective July 1, 2013.

\$ 8,574,035 \$ 8,740,953

CITY OF APPLETON 2018 BUDGET STORMWATER UTILITY CALCULATION OF RATE INCREASE DOCUMENTATION

| Revenues | 2017 Budget | 2017 Projected | 2018 Budget | 2019 Projected | 2020 Projected | 2021 Projected | 2022 Projected |
|---|--|---|---|---|---|---|---|
| Charges for Services Miscellaneous Total Revenues | \$ 9,361,845 74,000 9,435,845 | \$ 9,371,460 74,000 9,445,460 | \$ 9,415,000 77,000 9,492,000 | \$ 10,827,250 70,000 10,897,250 | \$ 10,881,386 70,000 10,951,386 | \$ 10,935,793 70,000 11,005,793 | \$ 10,990,472 70,000 11,060,472 |
| Expenses | | | | | | | |
| Operating Expenses Depreciation Total Expenses | 2,880,616 2,750,000 5,630,616 | 3,273,730 2,670,000 5,943,730 | 3,254,659 2,825,000 6,079,659 | 3,352,299 2,950,000 6,302,299 | 3,452,868 3,100,000 6,552,868 | 3,556,454 3,250,000 6,806,454 | 3,663,147 3,400,000 7,063,147 |
| Operating Income | 3,805,229 | 3,501,730 | 3,412,341 | 4,594,951 | 4,398,519 | 4,199,339 | 3,997,325 |
| Non-Operating Revenues (Expenses) | | | | | | | |
| Interest Income Interest Expense Gain/Loss on Refunding Premium on Debt Issue Debt Issue Expense Other | 200,000 (1,643,217) (61,400) 172,754 (100,000) | 200,000 (1,640,310) (136,117) 405,852 (100,000) | 200,000 (1,722,007) (147,227) 395,435 (150,000) | 200,000 (1,783,722) (140,016) 377,373 (125,000) | 200,000 (1,815,072) (142,690) 348,901 (125,000) | 200,000 (1,857,286) (127,533) 313,161 (125,000) | 200,000 (1,810,397) (112,756) 278,126 (125,000) |
| Total Non-Operating | (1,431,863) | (1,270,575) | (1,423,799) | (1,823,742) | (1,533,861) | (1,596,658) | (1,570,027) |
| Net Income Before Transfers | 2,373,366 | 2,231,155 | 1,988,542 | 2,771,209 | 2,864,658 | 2,602,681 | 2,427,298 |
| Contributions and Transfers In (Out) | | | | | | | |
| Capital Contributions Capital Projects | 461,966 | 600,056 | 161,555 | - | - | - | - |
| General Fund | (32,500) | (12,500) | (12,500) | (12,500) | (12,500) | (12,500) | (12,500) |
| Change in Net Assets | 2,802,832 | - 2,818,711 | 2,137,597 | 2,758,709 | 2,852,158 | 2,590,181 | 2,414,798 |
| Total Net Assets - Beginning | 69,326,623 | 69,326,623 | 72,145,334 | 74,282,931 | 77,041,640 | 79,893,797 | 82,483,979 |
| Total Net Assets - Ending | \$ 72,129,455 | \$ 72,145,334 | \$ 74,282,931 | \$ 77,041,640 | \$ 79,893,797 | \$ 82,483,979 | \$ 84,898,777 |

SCHEDULE OF CASH FLOWS

| Cash - Beginning of the Year | 14,009,166 | 8,574,035 | 8,740,953 | 9,781,459 | 10,910,007 | 11,631,398 | |
|--|--------------|--------------|--------------|---------------|---------------|---------------|--|
| + Change in Net Assets | 2,818,711 | 2,137,597 | 2,758,709 | 2,852,158 | 2,590,181 | 2,414,798 | |
| + Depreciation | 2,670,000 | 2,825,000 | 2,950,000 | 3,100,000 | 3,250,000 | 3,400,000 | |
| + Long Term Debt | 5,000,000 | 4,200,000 | 4,000,000 | 3,700,000 | 3,700,000 | 2,900,000 | |
| - Contibuted Capital | (600,056) | (161,555) | - | - | - | - | |
| - Fixed Assets | (12,703,786) | (5,599,124) | (5,353,203) | (4,913,609) | (4,908,791) | (3,884,196) | |
| - Principal Repayment | (2,620,000) | (3,235,000) | (3,315,000) | (3,610,000) | (3,910,000) | (3,860,000) | |
| | <u>.</u> | <u>.</u> | | <u> </u> | · · · · · · | · · · · | |
| Working Cash - End of Year | \$ 8,574,035 | \$ 8,740,953 | \$ 9,781,459 | \$ 10,910,007 | \$ 11,631,398 | \$ 12,602,000 | |
| | | | | | | | |
| 25% Working Capital Reserve (prior year's audite | d expenses) | 1,231,635 | 1,247,292 | 1,287,130 | 1,320,110 | 1,356,560 | |
| | | | | | | | |
| Coverage Ratio | 1.44 | 1.34 | 1.47 | 1.44 | 1.36 | 1.37 | |

ASSUMPTIONS:

Borrow approximately 75% of capital expenditures as detailed for capital improvements in years 2018-2022 Interest rate at 4% for future debt issues

ERU's to increase at a rate of 1/2% per year after 2018 Operating expenses to increase 3.0% per year after 2018 Maintain a level of 25% working capital reserve and 1.20 coverage ratio as required by bond covenants

RESULTS:

Rate increased 24% effective July 1, 2013 to \$155 per ERU replacing the rate of \$125 per ERU that has been in effect since July 1, 2010. The rate increase that was planned for July 1, 2016 as part of the plan presented to Council on June 15, 2011 was not needed. The next rate increase is planned at 15% on January 1, 2019. Rates will be monitored on an annual basis for adjustment based on actual results or changes in circumstances.

CITY OF APPLETON 2018 BUDGET STORMWATER UTILITY LONG TERM DEBT

| | 20 | 800 | | | 20 | 09 | | 20 |)12 | | 20 | 13 | |
|------|---------------|--------|---------|----|-----------|--------|---------|-----------------|--------|-----------|-----------------|-------|-----------|
| | Revenu | e Bond | ls | | Revenu | e Bono | ds | Revenu | ie Boi | nds | Revenu | e Bon | ıds |
| | Principal | h | nterest | F | Principal | | nterest | Principal | | Interest | Principal | | Interest |
| 2018 | \$ 275,000 | \$ | 2,750 | \$ | 355,000 | \$ | 17,950 | \$ 1,050,000 | \$ | 289,540 | \$ 265,000 | \$ | 224,881 |
| 2019 | - | | - | | 360,000 | | 3,600 | 1,100,000 | | 248,665 | 270,000 | | 216,819 |
| 2020 | - | | - | | - | | - | 1,145,000 | | 203,315 | 280,000 | | 208,494 |
| 2021 | - | | - | | - | | - | 1,190,000 | | 156,165 | 290,000 | | 197,694 |
| 2022 | - | | - | | - | | - | 880,000 | | 117,865 | 300,000 | | 185,794 |
| 2023 | - | | - | | - | | - | 740,000 | | 92,415 | 315,000 | | 173,344 |
| 2024 | - | | - | | - | | - | 495,000 | | 75,728 | 325,000 | | 160,444 |
| 2025 | - | | - | | - | | - | 255,000 | | 66,086 | 340,000 | | 146,994 |
| 2026 | - | | - | | - | | - | 260,000 | | 58,065 | 355,000 | | 132,944 |
| 2027 | - | | - | | - | | - | 270,000 | | 49,773 | 370,000 | | 118,294 |
| 2028 | - | | - | | - | | - | 280,000 | | 41,170 | 385,000 | | 101,961 |
| 2029 | - | | - | | - | | - | 285,000 | | 32,053 | 400,000 | | 84,625 |
| 2030 | - | | - | | - | | - | 295,000 | | 22,547 | 420,000 | | 66,469 |
| 2031 | - | | - | | - | | - | 305,000 | | 12,716 | 435,000 | | 47,194 |
| 2032 | - | | - | | - | | - | 315,000 | | 2,559 | 460,000 | | 26,775 |
| 2033 | - | | - | | - | | - | - | | - | 480,000 | | 5,400 |
| 2034 | - | | - | | - | | - | - | | - | - | | - |
| 2035 | - | | - | | - | | - | - | | - | - | | |
| | \$ 275,000 | \$ | 2,750 | \$ | 715,000 | \$ | 21,550 | \$ 8,865,000 | \$ | 1,468,662 | \$ 5,690,000 | \$ | 2,098,126 |

| | | 014 Je Bonds | | 15 e Bonds | | 20 Refundin |)15 Da Bonds | | 20 Revenue | | de |
|------|--------------|-----------------|--------------|---------------|---------|----------------|-----------------|---------|-----------------------|----|---------|
| Year | Principal | Interest | Principal | Interest | Princ | | | erest | Principal Interes | | |
| 2018 | \$ 140,000 | \$ 111,250 | \$ 160,000 | \$ 143,100 | \$ 45 | 55,000 | \$ - | 166,925 | \$ 110,000 | \$ | 97,150 |
| 2019 | 145,000 | 108,375 | 165,000 | 139,825 | 47 | 70,000 | | 157,600 | 110,000 | | 94,950 |
| 2020 | 150,000 | 104,275 | 170,000 | 135,175 | 48 | 30,000 | - | 144,450 | 115,000 | | 90,950 |
| 2021 | 155,000 | 99,663 | 175,000 | 129,963 | 49 | 95,000 | | 129,713 | 120,000 | | 86,200 |
| 2022 | 160,000 | 94,900 | 180,000 | 123,250 | 51 | 10,000 | - | 110,700 | 125,000 | | 81,250 |
| 2023 | 160,000 | 90,100 | 185,000 | 115,900 | 54 | 45,000 | | 89,250 | 130,000 | | 76,100 |
| 2024 | 170,000 | 85,075 | 195,000 | 108,200 | 55 | 50,000 | | 67,300 | 135,000 | | 70,750 |
| 2025 | 175,000 | 78,550 | 200,000 | 100,250 | 58 | 30,000 | | 44,400 | 140,000 | | 65,200 |
| 2026 | 180,000 | 71,400 | 210,000 | 91,950 | 60 | 00,000 | | 20,600 | 145,000 | | 59,450 |
| 2027 | 190,000 | 63,900 | 220,000 | 83,250 | 36 | 65,000 | | 3,650 | 150,000 | | 53,500 |
| 2028 | 195,000 | 56,150 | 230,000 | 74,150 | | - | | - | 160,000 | | 47,200 |
| 2029 | 205,000 | 48,050 | 235,000 | 64,800 | | - | | - | 165,000 | | 40,650 |
| 2030 | 210,000 | 39,700 | 245,000 | 55,100 | | - | | - | 170,000 | | 35,175 |
| 2031 | 220,000 | 31,000 | 255,000 | 45,000 | | - | | - | 175,000 | | 29,963 |
| 2032 | 230,000 | 21,900 | 265,000 | 34,500 | | - | | - | 180,000 | | 24,600 |
| 2033 | 240,000 | 12,400 | 280,000 | 23,450 | | - | | - | 185,000 | | 19,088 |
| 2034 | 250,000 | 2,500 | 290,000 | 13,038 | | - | | - | 190,000 | | 13,425 |
| 2035 | - | - | 300,000 | 2,625 | | - | | - | 195,000 | | 7,613 |
| 2036 | - | - | - | - | | - | | - | 205,000 | | 1,538 |
| | \$ 3,175,000 | \$ 1,119,188 | \$ 3,960,000 | \$ 1,483,526 | \$ 5,05 | 50,000 | \$ \$ | 934,588 | \$ 2,905,000 | \$ | 994,752 |

| | 2016 2017 | | | 17 | | | |
|------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
| | Refundir | ng Bonds | Revenue | e Bonds | | TOTAL | |
| Year | Principal | Interest | Principal | Interest | Principal | Interest | Total |
| 2018 | \$ 425,000 | \$ 452,425 | \$ - | \$ 174,036 | \$ 3,235,000 | \$ 1,680,007 | \$ 4,915,007 |
| 2019 | 695,000 | 439,875 | - | 166,013 | 3,315,000 | 1,575,722 | 4,890,722 |
| 2020 | 1,055,000 | 404,750 | 50,000 | 165,263 | 3,445,000 | 1,456,672 | 4,901,672 |
| 2021 | 965,000 | 365,250 | 185,000 | 162,238 | 3,575,000 | 1,326,886 | 4,901,886 |
| 2022 | 1,005,000 | 325,450 | 210,000 | 156,588 | 3,370,000 | 1,195,797 | 4,565,797 |
| 2023 | 1,050,000 | 283,900 | 215,000 | 150,175 | 3,340,000 | 1,071,184 | 4,411,184 |
| 2024 | 1,090,000 | 240,700 | 225,000 | 143,500 | 3,185,000 | 951,697 | 4,136,697 |
| 2025 | 1,130,000 | 195,900 | 230,000 | 136,638 | 3,050,000 | 834,018 | 3,884,018 |
| 2026 | 1,180,000 | 149,200 | 235,000 | 127,863 | 3,165,000 | 711,472 | 3,876,472 |
| 2027 | 1,230,000 | 100,500 | 245,000 | 118,163 | 3,040,000 | 591,030 | 3,631,030 |
| 2028 | 1,280,000 | 49,800 | 255,000 | 108,063 | 2,785,000 | 478,494 | 3,263,494 |
| 2029 | 925,000 | 9,250 | 270,000 | 97,413 | 2,485,000 | 376,841 | 2,861,841 |
| 2030 | - | - | 280,000 | 86,313 | 1,620,000 | 305,304 | 1,925,304 |
| 2031 | - | - | 290,000 | 74,813 | 1,680,000 | 240,686 | 1,920,686 |
| 2032 | - | - | 300,000 | 65,163 | 1,750,000 | 175,497 | 1,925,497 |
| 2033 | - | - | 310,000 | 55,938 | 1,495,000 | 116,276 | 1,611,276 |
| 2034 | - | - | 320,000 | 46,413 | 1,050,000 | 75,376 | 1,125,376 |
| 2035 | - | - | 330,000 | 36,278 | 825,000 | 46,516 | 871,516 |
| 2036 | - | - | 340,000 | 19,963 | 545,000 | 21,501 | 566,501 |
| 2037 | - | - | 350,000 | 11,619 | 350,000 | 11,619 | 361,619 |
| 2038 | | | 360,000 | 2,925 | 360,000 | 2,925 | 362,925 |
| | \$ 12,030,000 | \$ 3,017,000 | \$ 5,000,000 | \$ 2,105,378 | \$ 47,665,000 | \$ 13,245,520 | \$ 60,910,520 |

Note: Schedule is based on accrual method of accounting. Revenue bonds in amount of \$4,200,000 will be issued in 2018. Expected interest expense of the issue in 2018 is \$42,000 at 4%.

Appleton Wastewater Treatment Plant Synopsis July 2017 - September 2017

Wastewater Treatment Program

• The Appleton Wastewater Treatment Plant (AWWTP) final effluent met all Wisconsin Department of Natural Resources (WDNR) discharge monitoring reporting limits including carbonaceous biochemical oxygen demand (CBOD), total suspended solids (TSS), pH, phosphorous, and ammonia. (See Table 1). The plant maintained good treatment and a healthy microbiological population with a sludge retention time of seven and one half days. Dewatering processes functioned well and converted 14.7 Million Gallons (MG) of primary digested sludge to biosolids.

| | July 2017 | | |
|--------------------------|------------------|----------|---------|
| AWWTP Flows (MG) | Influent | Effluent | Percent |
| Industrial Flow | 47.5 | | 13.1% |
| Domestic Flow | 314.9 | | 86.9% |
| Total Flow | 362.4 | | |
| Pollutant Loadings (lbs) | Influent | Effluent | Removal |
| CBOD | 979,326 | 10,139 | 99.0% |
| TSS | 1,594,591 | 7,160 | 99.6% |
| Phosphorous | 18,370 | 490 | 97.3% |
| Ammonia | 58,179 | 3,415 | 94.1% |
| AND AND A CARLESS OF A | August 2017 | | |
| Industrial Flow | 54.8 | | 17.2% |
| Domestic Flow | 263.7 | | 82.8% |
| Total Flow | 318.5 | | |
| Pollutant Loadings (lbs) | Influent | Effluent | Removal |
| CBOD | 825,173 | 11,364 | 98.6% |
| TSS | 1,572,743 | 9,819 | 99.4% |
| Phosphorous | 17,985 | 710 | 96.1% |
| Ammonia | 64,270 | 3,119 | 95.1% |
| | September 2017 | | |
| Industrial Flow | 54.9 | | 18.6% |
| Domestic Flow | 240.8 | | 81.4% |
| Total Flow | 295.7 | | |
| Pollutant Loadings (lbs) | Influent | Effluent | Removal |
| CBOD | 820,669 | 10,393 | 98.7% |
| TSS | 1,392,740 | 8,524 | 99.4% |
| Phosphorous | 17,549 | 761 | 95.7% |
| Ammonia | 62,290 | 1,830 | 97.1% |

Work in Progress:

• 2017 Appleton Wastewater Plant Improvements Project: This project is comprised of four individual capital improvement projects which includes WAS Pumping System Replacement, High Pressure Blower #3 Replacement, Digester Biogas Mix Compressor Glycol Cooling System, and

Final Effluent Firm Pump Capacity Improvements. Donohue & Associates conducted a mid-course project meeting at the WWTP on July 26th to overview questions and findings with the preliminary Conditions Assessment and Project Alternatives. A draft technical memorandum (TM) was subsequently submitted for review. Based on meeting discussions and preliminary TM findings the Utility requested that Donohue stop work on the Final Effluent Firm Pump Capacity Improvements task. Estimated construction costs were more than double the original budget as a result of existing space constraints at the back of the plant including electrical distribution which would require upsizing to facilitate additional or larger pumps. Furthermore, questions arose regarding upstream hydraulic restrictions which necessitated a closer evaluation before the Utility could cost justify a construction project of this nature. A contract amendment with Donohue was advanced in September to account for this change including a contract to conduct an updated hydraulic analysis (*may also reference October 3, 2017 Utilities Informational Memorandum for additional details*).

- Chemical Storage Room Rehab/Improvements Project: McMahon conducted a 90% design meeting on August 28th to overview drawings and specifications with AWWTP staff. Public bidding documents are to be finalized and released in the next quarter.
- **Biogas Utilization Study Update: Donohue:** Donohue & Associates conducted a mid-course project meeting at the AWWTP on July 26th to overview preliminary findings associated with the updated biogas utilization study. A draft Digester Gas Utilization Report was submitted by Donohue on August 16th to the AWWTP for review and comment. A short list of next steps was identified based on the draft report and subsequent discussions with Donohue that included conducting updated biogas baseline testing and inspection of the existing Hurst biogas boilers by the original equipment manufacturer representative. This information will be utilized to determine if alternative operational set points or operational strategies under lower gas quality conditions are available for the existing boilers. It will also be used in part to appropriately evaluate the other alternatives listed within the Digester Gas Utilization Report. The final report is tentatively expected in late December or January 2018.
- **Spartan Drive Lift Station:** The AWWTP is supporting the Department of Public Works as part of the new Spartan Drive lift station construction project. Construction activities are ongoing. Applied Technologies, contracted engineer, completed a preliminary walk-through intended to identify punch-list items ahead of the WE Energies electrical service installation (anticipated to occur in late October). Equipment start-up activities will commence following electrical service installation with final completion not anticipated to occur until sometime late in the next quarter.

Regulatory Summary

• Monthly Discharge Monitoring reports for July, August and September were filed electronically on time for regulatory compliance. The 2017 3rd quarter short form was also submitted.

Laboratory Program

- Program objectives for regulatory and process sampling and analysis were met including results for the Discharge Monitoring Report (DMR) and Health Department pool testing program.
- Lab personnel completed the analysis of Single Blind Proficiency samples for laboratory recertification.

• Lab staff will be conducting compliance monitoring sampling and pretreatment monitoring sampling to comply with 2017 requirements. They also successfully assisted operations staff during the disinfection season which ended on September 30th.

EFFLUENT QUALITY SUMMARY April - September 2016/2017

| t Summary |
|-----------|
| Permit |
| Monthly |
| -2016 I |
| Table 1 |

| WIND A THE TAY I WEAT AT A TAY AND THE AT A TAY AND T | | | | | | | | | |
|---|--------|----------|---------------|--------|-------------------|--------------------|-----------------|-------------------------|--------------------------|
| | | | | | | | Fecal | | |
| | | | | | | | Coliform | Chlorine ⁽²⁾ | |
| | CBOD | SST | TSS | đ | Ą | (I) N-EHN | Colonies/ | Residual | μd |
| Month | (mg/L) | (mg/L) | (lbs/day) | (mg/L) | (Ibs/day) | (mg/L) | (100 ml) | (mg/L) | (s.u.) |
| Permit Limit | 25 | 30 | $I,322^{(3)}$ | 1.0 | 23 ⁽³⁾ | 10, 11, 4.4, 18 | 400 coV100ml | 0.038 mg/L | 6.0 - 9.0 daily limit |
| | | | | | _ | 07 | Geo.Mean | daily | mun fann |
| April ⁽³⁾ | 17 | _ | 165 | 0.10 | 12.9 | 0.32 | NA | NA | 7.4/7.6 |
| May | 4 | 5 | 205 | 0.27 | 26.0 | 0.66 | 2 | <0.01 | 7.0/7.4 |
| June | e e | 7 | 211 | 0.28 | 31.8 | 0.75 | 10 | <0.01 | 7.0/7.4 |
| July | 4 | m | 245 | 0.39 | 33.8 | 0.74 | 7 | <0.01 | 7.0/7.2 |
| August | 4 | 3 | 196 | 0.42 | 31.7 | 1.92 | 3 | <0.01 | 7.0/7.2 |
| September | 4 | 5 | 229 | 0.28 | 27.7 | 1.51 | 15 | <0.01 | 6.8/6.9 |
| | | | | | | | | | |

Table 2 – 2017 Monthly Permit Summary

| | CBOD | SST | SST | Ą | ٩ | NH3-N ⁽¹⁾ | Fecal Coliform Colonies/ | Chlorine ⁽²⁾ Residual | Ha |
|----------------------|--------|--------|-----------|--------|-----------|----------------------|--------------------------------|-------------------------------------|---------|
| Month | (mg/L) | (mg/L) | (Ibs/day) | (mg/L) | (Ibs/day) | (mg/L) | (100 ml) | (mg/L) | (.u.) |
| April ⁽³⁾ | 2 | | 470 | 0.09 | 15.8 | 1.48 | NA | NA | 7.2/7.3 |
| Mav | 4 | 2 | 388 | 0.12 | 15.6 | 1.43 | 2 | <0.01 | 6.9/8.1 |
| June | 3 | 2 | 257 | 0.13 | 15.5 | 1.25 | 10 | <0.01 | 7.1/7.9 |
| July | m | 5 | 231 | 0.17 | 15.8 | 1.10 | 19 | <0.01 | 7.1/7.4 |
| August | 4 | 4 | 317 | 0.26 | 22.9 | 1.14 | 6 | <0.01 | 7.1/7.4 |
| September | 4 | 3 | 284 | 0.30 | 25.4 | 0.66 | 23 | <0.01 | 7.1/7.3 |

NOTES:

- Seasonal NH3-N limits: 10 mg/L Jan. 1 Mar. 31, 11 mg/L Apr. 1 May 31, 4.4 mg/L Sep 30 Sep 30, 18 mg/L Oct 1 Dec 31.
 Seasonal fecal and residual chlorine limits are in effect May1st through September 30th. * April 1, 2017 WPDES Reissuance with new
 - TSS limits expressed as monthly concentration limit (mg/L) and loading limit (lbs).
 - April 1, 2017 WPDES Reissuance with new TSS limits expressed as monthly concentration limit (mg/L) and loading limit (lbs). The future TMDL phosphorus limit will be 23 lbs/day expressed as a 6-month average. 6

YEAR 2017 RECEIVING STATION REVENUE

| Hauler | January | February | March | April | May | June | July | August | September | October | November | December | August September October November December Y-T-D Total |
|----------------------|---------------|---|---------------|---------------|---------------|---------------|---|---------------|--------------|--------------|--------------|---------------|--|
| A & B Leist Trucking | \$ 118,361.74 | 118,361.74 \$128,962.99 \$ 159,597.37 \$ 162,154.77 | \$ 159,597.37 | \$ 162,154.77 | \$ 149,221.72 | \$ 173,976.28 | \$ 149,221.72 \$ 173,976.28 \$ 166,571.15 \$ 131,635.84 \$ 139,721.87 | \$ 131,635,84 | \$139,721.87 | | | | \$ 1,330,203.73 |
| Hickory Meadows | \$ 27,521.03 | 27,521.03 \$ 19,802,84 \$ 26,208.74 \$ 24,713.06 | \$ 26,208.74 | \$ 24,713.06 | \$ 34,503,32 | \$ 50,488.94 | \$ 34,503.32 \$ 50,488.94 \$ 27,292.89 \$ 30,661.10 \$ 35,120.72 | \$ 30,661,10 | \$ 35,120.72 | | | | \$ 276.312.64 |
| Jeff Waldvogel Trkg. | \$ 24,968.84 | 24,968,84 \$ 33,040.15 \$ 34,780.25 \$ 36,016.73 | \$ 34,780.25 | \$ 36,016.73 | \$ 41.377.45 | \$ 46,962.54 | \$ 41,377.45 \$ 46,962.54 \$ 48,136,60 \$ 49,779.37 \$ 45,571.70 | \$ 49,779.37 | \$ 45,571.70 | | | | \$ 360,633.63 |
| Movin Materials | • | \$ | - | \$ 6,331.87 | , \$ | - \$ | \$ - | \$ ' | s - | | | | \$ 6,331.87 |
| Waldvogel Trucking | \$ 1,883.4 | 1,883.47 \$ 2,670.05 \$ 3,031.98 \$ 2,670.27 | \$ 3,031.98 | \$ 2,670.27 | \$ 2,286,58 | \$ 2,081.96 | \$ 2.286.58 \$ 2.081.96 \$ 2.133.64 \$ 2.248.62 \$ 2.067.80 | \$ 2.248.62 | \$ 2,067.80 | | | | \$ 21,074.37 |
| | | | | | | | | | | | | | |
| 2017 Total | \$ 172,735.08 | 172,735.08 \$184,476.03 \$ 223,618.34 \$ 231,886.70 | \$ 223,618.34 | \$ 231,886.70 | \$ 227,389.07 | \$ 273,509.72 | \$ 227,389.07 \$ 273,509.72 \$ 244,134.28 \$ 214,324.93 \$222,482.09 \$ | \$ 214,324.93 | \$222,482.09 | م | • | - | \$ 1,994,556.24 |
| 2016 Total | \$172,642.5 | \$172,642.52 \$174,844.28 \$214,615.28 \$194,073.19 | \$214,615.28 | \$194,073.19 | \$147,993.22 | \$166,671.53 | \$177,531.77 | \$179,398.93 | \$213,707.36 | \$178,214.32 | \$184,882.22 | \$ 156,865.52 | \$147,993.22 \$166,671.53 \$177,531.77 \$179,398.93 \$213,707.36 \$178,214.32 \$184,882.22 \$ 156,865.52 \$ 2,161,440.14 |

*Movin Materials new hauler in April 2017

October 12, 2017 K. Rindt (via email) C. Shaw (via email) B. Kreski Date: Copies:

Utilities Committee

Appleton Water Treatment Plant Operations Synopsis July, August, September 2017

Summary

The table below presents selected water production and quality performance metrics for the current and previous reporting periods. All compliance parameters met or exceeded regulatory requirements. During the quarter, average water production increased by about 7% and average lake turbidity doubled consistent with seasonal change. As expected, the average ratio of electrical energy consumption to production volume has plateaued following transition to conventional filtration and UV disinfection.

| | Pre | evious (Q2 2 | 2017) | С | urrent (Q3 2 | 017) |
|---|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| WATER PLANT PARAMETERS | April | Мау | June | July | August | September |
| Water Treated | | | | | | |
| Finished (million gallons) Finished (million gallons / day) | 251.0 8.4 | 281.2 9.1 | 290.9 9.7 | 303.9 9.8 | 310.4 10.0 | 282.6 9.4 |
| Electrical Energy (WTF) Consumption (Megawatt-hours) MWH / million gallons produced | 438.0 1.74 | 456.7 1.62 | 478.6 1.64 | 517.7 1.70 | 509.8 1.64 | 475.2 1.68 |
| Turbidity Lake (NTU) Finished (NTU) Finished (<0.15 NTU standard) | 7.7 0.02 100% | 9.2 0.03 100% | 18.9 0.02 100% | 17.1 0.02 100% | 31.1 0.02 100% | 27.5 0.02 100% |
| Water System Microbial Quality | | | | | | |
| Total Coliform Samples Compliance with Standard | 81 100% | 81 100% | 82 100% | 81 100% | 83 100% | 81 100% |
| Disinfectant Contact Time Minimum CT Ratio Provided | 2.1 | 3.1 | 3.1 | 5.7 | 5.7 | 4.9 |
| Hardness | | | | | | |
| Lake Total / Calcium (mg/L) Finished Total / Calcium (mg/L) | 193/104 90/33 | 193/107 86/27 | 186/96 82/23 | 178/93 84/20 | 163/80 78/18 | 166/79 82/19 |
| Finished Water Quality | | | | | | |
| Total Chlorine (mg/L) | 2.06 | 2.01 | 1.86 | 1.76 | 1.83 | 1.88 |
| pH (SU) Min/Max | 8.6/8.8 | 8.5/8.8 | 8.1/9.0 | 8.2/8.9 | 8.1/8.8 | 8.3/8.8 |
| Water Temperature (Degrees F) | 47.1 | 57.6 | 70.0 | 75.9 | 73.6 | 69.8 |
| Fluoride (mg/L) Orthophosphate (mg/L) | 0.68 0.69 | 0.72 0.72 | 0.74 0.79 | 0.72 0.82 | 0.72 0.80 | 0.68 0.68 |

Laboratory

- In support of plant operations, staff conducted analyses according to method protocols for pH, turbidity, alkalinity, hardness, free/total chlorine, ammonia, phosphorus, and fluoride.
- In support of distribution operations, staff performed required 81 monthly Coliform bacteria analyses along with heterotrophic plate count (HPC) testing.
- Staff collected and processed raw and finished water samples to comply with LT2, DBPR2, HAB sampling requirements. Support was provided to consecutive customers with shipping of DBPR2 samples. Lead and copper monitoring was completed.

Safety

- WTF Safety programs were maintained by completing scheduled safety inspections. There were no significant incidents to report.
- Chemical unloading procedures are under review for potential improvements.

Operations

- Completed Lake Station electrical maintenance (IR scanning, MCC cleaning and inspection).
- North reservoir re-coating project 90% completed.
- #4 Softener cleaned for coating warranty inspection.
- Completed annual Waverly sanitary meter calibration check.
- Chemical systems design and rehabilitation project began.
- Database development continues for the implementation of the new plant data management and reporting system (Hach WIMS).
- Two UV Disinfection reactors were in continuous service during the quarter.

RUPIP

• Merrick Systems continued lime system warranty work to resolve level transmitter issues.

Staffing & Training

- All staff have completed mandatory department and City safety and employee training for the year.
- Operations Supervisor, Joe Myers, received the 2017 Operator's Meritorious Service Award from the Wisconsin Section of the American Water Works Association for consistent and outstanding service in providing a quality water supply to the public.

WATER SUMMARY FOR SEPTEMBER 2017

| Work done by Construction Mainten | ance | | | |
|---------------------------------------|---------------|---------------|---------------|---------------|
| · · · · · · · · · · · · · · · · · · · | | | | |
| | <u>Sep 16</u> | <u>Sep 17</u> | <u>YTD 16</u> | <u>YTD 17</u> |
| Hydrants repaired | 3 | 12 | 18 | 50 |
| Hydrants replaced | 1 | 0 | 4 | 4 |
| Hydrant leaks | 0 | 0 | 1 | 0 |
| Valves replaced | 0 | 2 | 1 | 4 |
| Valves tested & inspected | 37 | 32 | 1393 | 1888 |
| Valves Rebuilt | 0 | 4 | 14 | 27 |
| Valve boxes repaired | 3 | 5 | 46 | 46 |
| Curb boxes repaired | 11 | 34 | 129 | 152 |
| Curb boxes replaced | 1 | 0 | 21 | 2 |
| Lead or galvanized replaced | 0 | 0 | 18 | 30 |
| New services 1" | 0 | 0 | 0 | 0 |
| New services >1" | 0 | 0 | 1 | 0 |
| Water main breaks | 15 | 3 | 59 | 52 |
| Joint leaks repaired | 0 | 0 | 0 | 1 |
| Water quality | 0 | 0 | 2 | 7 |
| Service leaks (City side) | 0 | 0 | 1 | 3 |
| Work done by Meter Service Team | | | | |
| | Sep 16 | Sep 17 | <u>YTD 16</u> | YTD 17 |
| New accounts set with 3/4" or 1" | 27 | 4 | 140 | 51 |
| New accounts set with larger meter | 0 | 1 | 2 | . 7 |
| Meters tested | 812 | 730 | 7248 | 4613 |
| Meters failed | 23 | 12 | 390 | 144 |
| Meters stalled | 0 | 1 | 0 | 1 |
| Service calls | 102 | 90 | 964 | 1061 |
| Final readings | 418 | 341 | 2990 | 2807 |
| Read meters - no reading | 0 | 0 | 5 | 0 |
| New meters installed | 881 | 761 | 7558 | 4814 |
| Exception meters inspected | 0 | 0 | 0 | 0 |
| Exception meters removed | 0 | 0 | 0 | 0 |
| Service leaks found | 0 | 5 | 25 | 22 |
| Cross connection inspections | 836 | 643 | 7036 | 4545 |

WATER MAIN BREAK/JOINT LEAK REPORT SEPTEMBER 2017

| LOCATION | Work Order | TYPE OF PIPE | SIZE | YEAR | BREAK | ESTIMATED DURATION | ESTIMATED WATER LOSS IN GALLONS | ESTIMATED DOLLAR VALUE OF WATER REVENUE LOSS** |
|-------------------------|---------------|--------------------|------|------|--------------------|-----------------------|---------------------------------------|---|
| 3035 N. Roemer Road | 230907 | DIP | 12" | 1978 | 3" hole | 4 hours | 311,504 | \$1,894.84 |
| 1419 S. Lee Street | 230941 | CIP | 8" | 1970 | 1/32"x19" split | 2 days | 275,687 | \$1,676.97 |
| 1621 S. Hillcrest Drive | 231267 | CIP | ē. | 1657 | 1/32" crack | 4 hours | 22,792 | \$138.64 |
| | | | | | | | | \$0.00 |
| | | | | | | | | \$0.00 |
| | | | | | | | | \$0.00 |
| | | | | | | | | 00.0\$ |
| | | | | | | | | \$0.00 |

**Water loss is calculated at the residential rate of \$4.55 per 100 cubic feet.

WATER MAIN BREAK/JOINT LEAK DATA LOG SEPTEMBER 2017

| e Comments | | Repaired the following day during normal work hours. | | | |
|--|-----------------------------------|--|----------------------------------|--|--|
| Date/Time | 9/7/2017 2:00 a.m. Thursday | 9/7/2017 2:00 p.m. Thursday | 9/18/2017 9:00 p.m. Monday | | |
| Catch Basin Draining Yes/No | , tes | Yes 190'away | Yes 75' away | | |
| Major Break Minor Break | - | Minor | Major | | |
| Type of Street Concrete/Asphalt | F | Concrete | Terrace | | |
| Arterial, Collector, Freeway, Local | | | а С С | | |
| Leak Location | 3035 N. Roemer | Nuau 1419 S. Lee Street | 1621 S. Hillcrest Drive | | |

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