



1858
RAMSEY COUNTY
MINNESOTA

Board of Supervisors
ED M. PRUDHON, *Chair*
STEVEN A. RUZEK
SCOTT E. MCCUNE

1281 HAMMOND ROAD
WHITE BEAR TOWNSHIP, MN 55110

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Email: wbt@whitebeartownship.org

**AGENDA
UTILITY COMMISSION MEETING
JULY 17, 2019**

1. **7:00 p.m.** Call Meeting to Order at Township Office Conference Room, 1281 Hammond Road.
2. Approval of July 17, 2019 Agenda (Additions/Deletions).
3. Approval of June 13, 2019 Minutes (Additions/Deletions).
4. Consent Agenda:
 - a. Receive Monthly Sewer & Water Report.
 - b. Receive Republic Services Monthly Service Report.
 - c. Solid Waste Abatement Report.
5. Commissioner's Report.
6. Pavement Management Plan – Update.
7. Stormwater Projects – Update.
8. Public Works Director Report.
9. Utility Rate Changes.
10. Next Meeting Date / Agenda Items.
11. Added Agenda Items.
12. Adjournment.

**White Bear Township's
Mission:**

To provide White Bear Township residents, businesses and visitors with reliable, high quality municipal services while serving as open and responsible stewards of the public trust.





Utility Commission Meeting July 17, 2019

Agenda Number: 1 – 2- 3

Subject: Call to Order – 7:00 p.m.
WBT Administrative Conference Room

Approval of July 17, 2019 Agenda &
June 13, 2019 Minutes

Documentation: July 17, 2019 Agenda &
June 13, 2019 Minutes

Action / Motion for Consideration:

Call meeting to order:	7:00 p.m.
Approval of Agenda:	July 17, 2019 (Additions / Deletions)
Approval of Minutes:	June 13, 2019

**MINUTES
UTILITY COMMISSION MEETING
JUNE 13, 2019**

The meeting was called to order at 7:03 p.m.

Present: DeLoach, Fredericks, Groschen, Hesse, Pehrson; Advisor: Christopherson.
Absent: Bernstein; Public Works Director: Reed; Commissioner: McCune, all with notice.

APPROVAL OF AGENDA (Additions/Deletions): DeLoach moved to approve the agenda as submitted. Fredericks seconded. Ayes all.

APPROVAL OF MINUTES OF MAY 9, 2019: Hesse moved the approval of the May 9, 2019 Minutes. Pehrson seconded. Ayes all.

CONSENT AGENDA: DeLoach moved to approve of the Consent Agenda as follows: 4A) Monthly Sewer & Water Report & Watermain; 4B) Receive EDAB Minutes; 4C) Receive Republic Services Monthly Service Report; Hesse seconded. Ayes all.

COMMISSIONER'S REPORT: Commissioner McCune was not present to report.

STORMWATER PROJECTS – UPDATE: This agenda item went in discussion with the following item: the Pavement Management Plan update. At the May meeting, the Public Works Director had laid out the 50 plus stormwater projects for the next 5 years. At the end, the Town may very well repeat the process. In the first year, it was noted that the Public Works Director estimates \$315,800 for the stormwater improvements. It was the Financial Officer's advice to potentially bond for this amount in conjunction with the bonding for the pavement management plan, because more is coming in the following years.

At the Town Board Meeting of June 3, 2019, there was a more pertinent stormwater project brought to the Board's attention, and the Board approved continuing with that project first.

A handout was given at the Utility Commission meeting that included the 2018 rate outline with new improvements, which included a visual representation on how much of the Commission was leaning at the May meeting toward this agenda item (i.e. not bonding). A following New Rate Study with new improvements was discussed. The only difference between the two Studies were the rates of increase for Storm Water that the residents would pay, a steady increase of about a dollar or a little more per year in the second scenario verses a few higher jumps in the not bonding scenario. If the Township did not bond for the stormwater project, at the end of all 10 years, the Township would be in the red \$668,871.65. However, according to the second Study, that takes into account the amount bonded, and what the gain will do after each improvement, the Township is only in the red \$111,174.56. It was also discussed that the Township could potentially break even if stormwater projects and the street improvement project could be bonded together.

There was also discussion on how much cash the Stormwater Fund should have on hand in case of emergency. It was the consensus that there will be more information at the July meeting regarding numbers and rates. The Commission should expect to make a recommendation to the

MINUTES
UTILITY COMMISSION MEETING
JUNE 13, 2019

Town Board on a number value for the cash the Stormwater Fund should have on hand in case of emergency at the July meeting.

PAVEMENT MANAGEMENT PLAN – UPDATE: The Commission was updated on the Special Town Board Public Hearing in regards to the Street Improvement Plan on June 4, 2019 where Town Engineer Larry Poppler presented the road upgrade plan and answered questions. There was discussion of the stormwater projects first and how those could play into the pavement management plan in five years' time.

As of now, nothing is set in stone, but Staff are anxious to get the ball rolling. This year the project will cost 1.2 million because the Board felt that residents would not accept the 4 million project right off the bat. There was discussion of the condition of the roads, the fact that they won't improve unless acted upon, and that costs will not get lower in the future. This is a project that has to get done.

There was discussion of the different types of road improvements: mill and overlay – the most cost effective, able to be completed on roads showing less degradation, and how many of the 2019's streets will be improved; reclamation – a more expensive street improvement project, only one street on the 2019's streets will be improved this way; and a reconstruction – the most expensive measure of street repair, the option Town Engineers are trying to avoid by opting for mill and overlays before it is too late for streets.

There was discussion of assessment, and it was noted that the 100% assessment per street/neighborhood would not be implemented. Everyone uses the streets, after all, in one way or another. The way the Township has assessed the residents includes that all will pay a much smaller percentage so everyone can share the burden. When it comes down to it, it was noted, the average resident will pay an extra \$20-\$25 per month on the tax bill.

If the street improvement project and the stormwater projects could bond together, 60-65% of the bond would be for the streets and 35-40% would be for the stormwater projects. It was noted that the rate of return with the bond is 3.85%. The Town's Financial Planner has the official rate study. A question was brought up whether the Commission could receive the last three years' worth of stormwater expenses. It was the consensus that the Town Clerk could get the Commission the last five years' worth to look at. More will be discussed at the July meeting.

PUBLIC WORKS DIRECTOR REPORT: The Public Works Director was not present to discuss the Public Works Report for May 2019, but the Commission looked it over and found no other items in need of discussing at the time.

ADDED AGENDA ITEMS: The next meeting date is scheduled to be July 11, 2019. There was some discussion of the water level of Bald Eagle Lake and the micro-organisms entering the lake by way of White Bear Lake. It was noted that Rice Creek Watershed District will do something to target this issue.

**MINUTES
UTILITY COMMISSION MEETING
JUNE 13, 2019**

DeLoach moved to adjourn the meeting at 7:57 p.m. Hesse seconded. Ayes all.

Respectfully Submitted,

Megan R. Cavanaugh
Recording Secretary

DRAFT



**Utility Commission Meeting
July 17, 2019**

Agenda Number: 4A - Consent

Subject: Receive Monthly Sewer & Water Report

Documentation: None

Action / Motion for Consideration:

Receive Information



**Utility Commission Meeting
July 17, 2019**

Agenda Number: 4B - Consent

Subject: Republic Services Monthly Service Report

Documentation: Reports

Action / Motion for Consideration:

Receive Information

Service Report By Month for White Bear Township



2019

Calls from residents, reported as 'missed pick-ups'

	Trash	YardWaste	Recycle	Totals
JANUARY	13	0	15	28
FEBUARY	11	0	5	16
MARCH	0	0	8	8
APRIL	1	0	6	7
MAY	0	0	1	1
JUNE				0
JULY				0
AUGUST				0
SEPTEMBER				0
OCTOBER				0
NOVEMBER				0
DECEMBER				0

Possible collection sites per system, per week	3,851
Possible collection sites per system, per month, with 4.33 weeks per month	16,675
Possible collection sites for all routes per month April 1 - Nov 30	50,024
Possible collection sites for all routes per month Dec 1 - March 31	33,350

Service Report By Month for White Bear Township

2019



Calls from residents, reported as 'missed pick-ups'

	Trash	YardWaste	Recycle	Totals
JANUARY	13	0	15	28
FEBUARY	11	0	5	16
MARCH	0	0	8	8
APRIL	1	0	6	7
MAY	0	0	1	1
JUNE	9	1	3	13
JULY				0
AUGUST				0
SEPTEMBER				0
OCTOBER				0
NOVEMBER				0
DECEMBER				0

Possible collection sites per system, per week	3,851
Possible collection sites per system, per month, with 4.33 weeks per month	16,675
Possible collection sites for all routes per month April 1 - Nov 30	50,024
Possible collection sites for all routes per month Dec 1 - March 31	33,350



**Utility Commission Meeting
July 17, 2019**

Agenda Number: 4C - Consent

Subject: Solid Waste Abatement Report

Documentation: Report

Action / Motion for Consideration:

Receive Information

SOLID WASTE ABATEMENT FROM COLLECTORS

REPORTED BY REPUBLIC SERVICES

FOR THE CITY OF:

White Bear Township

REPORT PERIOD:

Jun-19

HOUSEHOLD RECYCLING PARTICIPATION

Total number of possible recycling stops this month:	10,324
Number of actual recycling stops this month:	8,871
Participation:	86%

TOTAL WEIGHT COLLECTED FOR THIS MONTH:

RESIDENTIAL:

Newspaper *includes mixed mail, magazines & phonebooks	74,732
Glass	35,450
Cans	12,455
Cardboard- OCC	51,737
Plastic	17,246

TOTAL WEIGHT COLLECTED

191,620 Pounds

Republic Services certifies that the above stated figures are an accurate account and the reported information will not be used for abatement totals or reimbursements for any other city or recycling program.

July 10, 2019



SOLID WASTE ABATEMENT FROM COLLECTORS
REPORTED BY REPUBLIC SERVICES

FOR THE CITY OF:

White Bear Township

REPORT PERIOD:

May-19

HOUSEHOLD RECYCLING PARTICIPATION

Total number of possible recycling stops this month:

9,836

Number of actual recycling stops this month:

9,198

Participation:

94%

TOTAL WEIGHT COLLECTED FOR THIS MONTH:

RESIDENTIAL:

Newspaper *includes mixed mail, magazines & phonebooks	84,848
Glass	40,249
Cans	14,141
Cardboard- OCC	58,741
Plastic	19,580

TOTAL WEIGHT COLLECTED

217,559 Pounds

Republic Services certifies that the above stated figures are an accurate account and the reported information will not be used for abatement totals or reimbursements for any other city or recycling program.

June 21, 2019



SOLID WASTE ABATEMENT FROM COLLECTORS

REPORTED BY REPUBLIC SERVICES

FOR THE CITY OF: **White Bear Township**

REPORT PERIOD: **Apr-19**

HOUSEHOLD RECYCLING PARTICIPATION

Total number of possible recycling stops this month:	10,554
Number of actual recycling stops this month:	9,807
Participation:	93%

TOTAL WEIGHT COLLECTED FOR THIS MONTH:

RESIDENTIAL:

Newspaper	87,454
*includes mixed mail, magazines & phonebooks	
Glass	41,484
Cans	14,576
Cardboard- OCC	60,545
Plastic	20,182

TOTAL WEIGHT COLLECTED 224,241 Pounds

Republic Services certifies that the above stated figures are an accurate account and the reported information will not be used for abatement totals or reimbursements for any other city or recycling program.

May 28, 2019



SOLID WASTE ABATEMENT FROM COLLECTORS
REPORTED BY REPUBLIC SERVICES

FOR THE CITY OF: **White Bear Township**

REPORT PERIOD: **Mar-19**

HOUSEHOLD RECYCLING PARTICIPATION

Total number of possible recycling stops this month:	7,524
Number of actual recycling stops this month:	6,549
Participation:	87%

TOTAL WEIGHT COLLECTED FOR THIS MONTH:

RESIDENTIAL:

Newspaper	55,996
*includes mixed mail, magazines & phonebooks	
Glass	26,562
Cans	9,333
Cardboard- OCC	38,767
Plastic	12,922

TOTAL WEIGHT COLLECTED

143,580 Pounds

Republic Services certifies that the above stated figures are an accurate account and the reported information will not be used for abatement totals or reimbursements for any other city or recycling program.

April 16, 2019



SOLID WASTE ABATEMENT FROM COLLECTORS

REPORTED BY REPUBLIC SERVICES

FOR THE CITY OF:

White Bear Township

REPORT PERIOD:

Feb-19

HOUSEHOLD RECYCLING PARTICIPATION

Total number of possible recycling stops this month:

7,934

Number of actual recycling stops this month:

6,125

Participation:

77%

TOTAL WEIGHT COLLECTED FOR THIS MONTH:

RESIDENTIAL:

Newspaper	56,511
*includes mixed mail, magazines & phonebooks	
Glass	26,807
Cans	9,419
Cardboard- OCC	39,123
Plastic	13,041

TOTAL WEIGHT COLLECTED

144,901 Pounds

Republic Services certifies that the above stated figures are an accurate account and the reported information will not be used for abatement totals or reimbursements for any other city or recycling program.

March 13, 2019





**Utility Commission Meeting
July 17, 2019**

Agenda Number: 5

Subject: Commissioner's Report

Documentation: None

Action / Motion for Consideration:

Receive Information



Utility Commission Meeting July 17, 2019

Agenda Number: 6

Subject: Pavement Management Plan - Update

Documentation: None

Action / Motion for Consideration:

Receive Information

Minutes
Utility Commission Meeting
June 13, 2019

PAVEMENT MANAGEMENT PLAN – UPDATE: The Commission was updated on the Special Town Board Public Hearing in regards to the Street Improvement Plan on June 4, 2019 where Town Engineer Larry Poppler presented the road upgrade plan and answered questions. There was discussion of the stormwater projects first and how those could play into the pavement management plan in five years' time.

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was brought up whether the Commission could receive the last three years' worth of stormwater expenses. It was the consensus that the Town Clerk could get the Commission the last five years' worth to look at.

More will be discussed at the July meeting.



Utility Commission Meeting July 17, 2019

Agenda Number: 7

Subject: Stormwater Projects - Update

Documentation: None

Action / Motion for Consideration:

Receive Information

Minutes
Utility Commission Meeting
June 13, 2019

STORMWATER PROJECTS – UPDATE: This agenda item went in discussion with the following item: the Pavement Management Plan update. At the May meeting, the Public Works Director had laid out the 50 plus stormwater projects for the next 5 years. At the end, the Town may very well repeat the process. In the first year, it was noted that the Public Works Director estimates \$315,800 for the stormwater improvements. It was the Financial Officer's advice to potentially bond for this amount in conjunction with the bonding for the pavement management plan, because more is coming in the following years.

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on a number value for the cash the Stormwater Fund should have on hand in case of emergency at the July meeting.



**Utility Commission Meeting
July 17, 2019**

Agenda Number: 8

Subject: Public Works Director Report

Documentation: Report

Action / Motion for Consideration:

**White Bear Township
Town Board Update
On
Public Works Department Activity
(May 2019)**

- 1. Lift Station Upgrades–**
 - Lift Station #10 – A punch list was created for the project.
 - Lift Station #9 – Bids are due June 13th.

- 2. Safety**
 - Public Works Leadership staff will be meeting with Safe Assure for our annual audit of our safety program on June 11, 2019. The audit includes both the Town’s written program and a walk thru of Public Works and Administration Buildings.
 - Staff will be recertified for Forklift and Scissor Lift once a date is coordinated with the Town’s Safety Consultant.

- 3. Water Meter Repair/Reading**
 - Water meter replacement project update – Township staff and the Town Engineer have met with Core & Main’s installation subcontractor, M&E Construction and Corey Luft regarding the start date for the project. July 1st is the start date. The bulk of the water meters have been delivered and roughly 1/3rd of the Radios.
 - Commercial meter testing – A percentage of commercial meters will be tested for accuracy each year going forward. Beginning with the highest users that have not been replaced recently.

- 4. 2018-2027 Capital Equipment/Capital Improvement Programs**
 - The GIS/Asset Management Project phase II was approved by the Town Board on May 20th.

- 5. Storm Water Program**
 - There have been several new drainage concerns that were elevated to the Town’s attention during this wet Spring. The Town Engineer and the Public Works Director have reviewed the sites.
 - The Town Engineer is organizing a site meeting with the Public Works Director on Outfalls 5 and 6 that discharge into Bald Eagle Lake soon.
 - There will be a large storm maintenance project completed by Public Works staff located south of Otterview Court in the easement. The system caused flooding in Brittany Court during one of the large rain events this summer. Approximately 30 cu yds of sediment that is impairing drainage from two outlet pipes into inlet pipe that discharges into the I35E corridor.
 - The Town Engineer and staff will need to complete an updated SWPPP will need to be updated soon.

6. **Water system improvements/issues**
 - The Town Engineer is going to provide an agreement for the Town Board to approve regarding replacement or lining of watermain between Taylor Ave and Gaston Ave, on Hugo Road. There have been roughly 8+ watermain breaks between Taylor Avenue and Gaston Avenue over the last 30 years. No others north of south of this area. The watermain is a 12” line. One home would be without water. We can temporary water from a hydrant on Taylor while the work is being completed for the resident at 5475 Hugo Road.
 - Hammond Road Water Tower repainting in 2019 – The subcontractor for the cell carrier placed a temporary pole just south of the enclosure to move the existing antennas to while the painting work is completed. Work on the transfer of the antennas will be over the next few weeks.
 - An interconnect for area south of TH 96 with the City of White Bear Lake’s water system is going to be proposed to the Town Board in 2018. The Town Engineer and Public Works Director will need to visit the possible interconnect locations to determine which is the most feasible in May.

7. **Sanitary sewer system improvements/issues**
 - The City of Birchwood is requesting that a JPA is created to provide the MCES with. The MCES is requiring the JPA prior to their approval. They would also like the Town to approve them to access our system for a temporary bypass in the interim until the final connection is made.

8. **Street Improvement Program.**
 - An Street Improvement meeting will be held this coming Tuesday, May 28th for this years proposed street maintenance projects identified in the Pavement Management Plan.
 - Comment on the updated Emerald Ash Borer Management Plan will be shared by the Town Board with staff.

9. **Sign replacement program (retroreflectivity standard)**
 - Street name sign replacement is proposed for 2020. Staff has completed taking inventory of our existing sign locations and number. The CIP \$\$\$ have been increased.

10. **Personnel Updates:**

11. **Park Projects:**
 - Bellaire Beach house rehabilitation. The interior and exterior painting has been awarded to Fresh Paint and the work will be completed early spring of 2019, pending weather. The Public Works Director has received

replacement toilet partitions/doors to be installed by staff after the painting is completed.

- Court color coating quote was approved by the Town Board on August 20th. Work will be completed in the spring of 2019. The gates have been locked in the interim to prevent bike's from using the court.
- The trails along White Bear Parkway, Hammond Road, Centerville Road, Otter Lake Road, Polar Lakes Park and Columbia Park will be sealcoated in 2019. The Public Works Director is working on specifications for the project to be approved by the Town Board.

12. Ramsey County Projects within the Township;

2019

- West Bald Eagle Boulevard from Co Rd H-2 to Co Rd J.
- Concrete Rehab of Highway 96 from I-35E to Highway 61.
- Mill and Overlay of South Shore Boulevard from White Bear Avenue to Co Rd F?

2020-2022 Proposed

- Mill and Overlay of Century Avenue from Co Rd E to Co Rd F.
- Co Rd F from McKnight Road to Century (East Co Ln)
- Co Rd H-2 from Centerville Road to West Bald Eagle Boulevard
- Otter Lake Road from Goose Lake Road to CSAH 96
- Portland Avenue from Highway 96 to Taylor Avenue.
- East Bald Eagle Boulevard?

13. Informational sharing regarding Public Works in general:

Public Works Jobs for May 2019

1. Monthly safety inspections of, fire extinguishers, emergency lighting, eye wash stations and A.E.D., fall harnesses
2. Completed 15 IR (MN State) bacteria water tests
3. Continuing doing water testing and monitoring of the Towns water system
4. Continuous water testing at well's 1, 3, 4, 5 and 6
5. Continued various water meter and Radio repairs
6. Started and finished the spring 2019 fire hydrant flushing in the Township and North Oaks
7. Various water shut off for home repairs
8. Irrigation water turn on's in North Oaks and the Township
9. New construction water turn on's and radio proگرامing
10. Cont. to clean up around the Hammond Rd. water tower for the summer painting /rehab project
11. Gopher one locates in Township, North Oaks, Gem Lake, and Birchwood
12. Cont. patching potholes on Town roads
13. Started sod/turf damage repairs from winter plow damage

14. Removal of trees behind the Public Works building the were rubbing against the building
15. Cont. to work on storm sewer/catch basin repairs
16. Emptied trash in all the parks
17. Installed bathroom stall doors, handicap grab bars, soap dispensers and toilet paper dispensers at Bellaire Beach house
18. Put up wind screens at Polar Lakes Baseball fields 1 and 3
19. Over seeded Polar Lakes Soccer field goal mouths
20. Started cull grass at Town Parks and Lots
21. Fertilized Gem Lake City Hall, Longville, Four Seasons baseball field's and Polar Lakes baseball field in field areas on fields 1,2,3 and 4

Mechanic jobs for May 2019

- Cont. to setup # 30 (new utility truck) compartments for tools etc.
- Service # 28 (GMC pickup)
- Service # 24 (Ford pickup)
- Service # 21 (Bobcat Toolcat)
- Serviced # 3 and 6 (Toro 4000D mower)
- Scheduled # 40 (5 yd. dump truck) wiring repair
- Repaired the water tanks on # 7 (Bobcat Tire machine)
- Assisted Public Works



**Utility Commission Meeting
July 17, 2019**

Agenda Number: 9

Subject: Utility Rate Changes

Documentation: Finance Officer Information

Action / Motion for Consideration:

6B. Consideration of Utility Rate Increase. (TK)

Annually, the Utility Commission reviews the Town's utility rates. The goal of the Town's utility rates is to cover 100% of operation costs and 75% of depreciation. Cash balances of each fund may increase or decrease from one year to the next based on improvement projects funded by each fund. Attached are rate projections for the next ten years.

The following assumption were made in projecting the rates and funds cash flows:

- March 2018 through March 2019, water usage less 8% was used to estimate water consumption for the next year.
 - An 8% decrease in water usage was estimated for the water meter replacements, which should provide readings that are more accurate.
 - Current meters are reading high.
- Sewer rates based on January to March 2019, water usage less 8%.
- Personnel services, which includes wages and benefits, was increased 7%.
- Supplies and Other Services & Charges increased 3%.
- Improvements listed in the cash flow were provided from the Town's 2019 to 2028 Capital Improvement Plan (most current plan).
- Estimated new debt is the funds share of improvements estimated in the Town's 10-year pavement management plan and anticipates the Town issuing debt for these projects.
 - Debt payment is estimated using an estimated 2019 debt issue amount and adjusting amount based on project costs each year.
 - Changes in project costs and interest rates in future years will affect these projections.

Based on these assumptions, staff recommends the following rate changes on the following page:

A. REFERENCE AND BACKGROUND:

- A1. Budget Impact:** These utility rates will be used to estimate revenues in the utility funds for 2020.
- A2. Staff Workload Impact:** There is little staff time to input the new rates into the billing system and provide residents notice of the new rates.

CURRENT AND NEW (2020) UTILITY RATES						
WATER RATES						Proposed
		2016	2017	2018	2019	2020
	Gallons	Rate	Rate	Rate	Rate	Rate
Base Rate		\$ 17.75	\$ 19.20	\$ 20.50	\$ 21.25	\$ 21.75
Volume Rate:						
Tier 1	0 - 20,000	\$ 1.95	\$ 2.01	\$ 2.25	\$ 2.35	\$ 2.35
Tier 2	20,001 - 32,000	\$ 2.15	\$ 2.21	\$ 2.45	\$ 2.60	\$ 2.60
Tier 3	32,001 - 44,000	\$ 2.57	\$ 2.76	\$ 3.10	\$ 3.38	\$ 3.40
Tier 4	44,001 +	\$ 3.86	\$ 4.14	\$ 4.60	\$ 5.75	\$ 6.00
Irrigation:						
Residential		\$ 2.57	\$ 2.76	\$ 3.10	\$ 3.38	\$ 3.40
Commercial		\$ 2.57	\$ 2.76	\$ 3.85	\$ 4.20	\$ 4.25
SEWER RATES						
	Gallons	Rate	Current	Current	Proposed	Proposed
Base Rate:						
Residential *		\$ 46.00	\$ 48.38	\$ 50.80	\$ 51.00	\$ 52.00
Commercial		\$ 40.60	\$ 42.82	\$ 45.00	\$ 45.15	\$ 46.00
Volume Rate:						
Residential *		\$ 1.08	\$ 2.00	\$ 3.00	\$ 4.00	\$ 5.00
Commercial		\$ 2.50	\$ 5.00	\$ 7.50	\$ 10.00	\$ 12.50
* Residential base rate includes up to 5,000 gallons of usage. Any usage over 5,000 gallons will be billed \$4.00 per 1,000 gallons plus the base rate.						
STORM WATER RATES						
	Gallons	Rate	Current	Current	Proposed	Proposed
Per Quarter		\$ 17.00	\$ 20.00	\$ 20.00	\$ 21.00	\$ 22.50

B. ALTERNATIVE ACTIONS:

1. Discuss fund projections and new rates and recommend the 2020 utility rates as proposed to the Town Board.
2. Discuss fund projections and new rates and recommend the 2020 utility rates and based on discussion ask staff to make changes to rates or projections and bring back to next Utility Commission Meeting.

D. SUPPORTING DATA:

Water, Sanitary Sewer, and Storm Water Utility Fund projections using the proposed rates, and estimated bill comparison.

WATER USAGE	12/2017 - 2/2018		3/2018 - 5/2018		6/2018 - 8/2018		9/2018 - 12/2018		1/2019 - 3/2019		Average		Total			
	# of Customers	Total Consumption	# of Customers	Total Consumption	# of Customers	Total Consumption	# of Customers	Total Consumption	# of Customers	Total Consumption	# of Customers	Total Consumption	% of Customers	Per Customer	# of Customers	Total Consumption
Residential	8%															
Gallons Used	4,173	36,874,813	3,660	35,104,656	3,148	29,929,555	3,426	35,010,134	4,033	38,005,039	3,567	34,512,346	9,676	72.5%	14,267	138,049,385
0 - 20,000	418	9,184,907	752	17,022,801	666	15,250,232	904	20,442,355	586	12,987,057	727	16,425,611	22,594	14.8%	2,908	65,702,445
20,001 - 32,000	69	2,322,585	198	6,664,531	318	10,955,943	268	9,204,186	81	2,738,987	216	7,390,912	34,178	4.4%	865	29,563,667
32,001 - 44,000	33	1,990,532	110	6,529,471	608	46,821,129	152	9,837,710	42	2,477,456	228	16,416,442	72,002	4.6%	912	65,665,766
over 44,001	4,693	50,372,837	4,720	65,321,459	4,740	102,956,860	4,750	74,494,385	4,742	56,208,539	4,738	74,745,311	15,776	96.3%	18,952	298,981,243
Totals																
Commercial																
Gallons Used																
0 - 20,000	93	292,710	80	368,033	78	368,069	67	313,738	104	386,646	82	359,122	4,366	1.7%	329	1,436,486
20,001 - 32,000	17	385,621	18	435,595	12	297,375	24	560,995	9	208,152	16	375,529	23,843	0.3%	63	1,502,117
32,001 - 44,000	3	95,543	15	526,101	7	236,357	8	276,998	6	196,089	9	308,886	34,321	0.2%	36	1,235,545
over 44,001	41	10,512,032	73	18,331,349	94	39,202,678	91	27,628,445	44	12,723,174	76	24,471,412	324,125	1.5%	302	97,885,647
Totals	154	11,289,406	186	19,661,078	191	40,104,480	190	28,780,177	163	13,514,060	183	25,514,949	139,808	3.7%	730	102,059,795
3.18%	18,313	23,144	3,795	23,144	3,87%	28,03%	3,85%	27,87%	3,32%	19,38%	3,71%	25,45%				
Grand Total	4,847	61,662,244	4,906	84,982,537	4,931	143,061,340	4,940	103,274,562	4,905	69,722,599	4,921	100,260,260	20,376	100.0%	19,682	401,041,038
Residential																
Gallons Used																
0 - 20,000	3,980	40,954,014	4,116	40,510,339	2,712	29,705,844	3,667	37,584,214	4,173	40,081,318	3,667	36,970,429	10,082	74.5%	14,668	147,881,715
20,001 - 32,000	544	13,174,474	441	10,666,998	885	22,291,505	675	16,749,424	418	9,983,595	605	14,922,881	24,676	12.3%	2,419	59,691,522
32,001 - 44,000	82	2,949,682	78	2,899,020	385	14,299,215	222	8,184,060	69	2,524,549	189	6,976,711	37,012	3.8%	754	27,906,844
over 44,001	56	3,887,694	45	2,936,503	703	58,749,830	145	10,582,584	33	2,163,622	232	18,608,135	80,381	4.7%	916	74,432,539
Totals	4,662	60,965,864	4,680	57,012,860	4,685	125,046,394	4,709	73,100,282	4,693	54,753,084	4,692	77,478,155	16,514	95.4%	18,767	309,912,620
Commercial																
Gallons Used																
0 - 20,000	124	377,352	110	474,804	65	385,384	77	471,545	93	317,620	86	412,338	4,781	1.8%	345	1,649,353
20,001 - 32,000	11	285,026	13	328,728	11	285,957	13	318,357	17	419,153	14	338,799	25,096	0.3%	54	1,355,195
32,001 - 44,000	6	215,206	14	523,069	7	262,368	10	393,724	3	108,199	9	321,840	37,864	0.2%	34	1,287,360
over 44,001	40	11,432,430	46	12,345,780	102	50,500,913	87	26,299,279	41	11,426,122	69	25,143,024	364,392	1.4%	276	100,572,094
Totals	181	12,310,014	183	13,672,381	185	51,437,622	187	27,482,905	154	12,271,094	177	26,216,001	147,904	3.6%	709	104,964,002
3.74%	16,80%	19,34%	3,80%	29,15%	3,80%	27,32%	3,82%	27,32%	3,18%	18,31%	3,64%	25,28%				
Grand Total	4,843	73,275,878	4,863	70,685,241	4,870	176,484,016	4,896	100,583,187	4,847	67,024,178	4,869	103,694,156	21,297	99.0%	19,476	414,776,622

WATER FUND (No Irrigation Ban)
Fixed (Flat) Rates

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
%	Actual	Actual	Budget	Projected									
Increase Fixed Expenses													
107.00% Personnel Services	\$258,389	\$266,621	\$287,968	\$308,125	\$329,694	\$352,773	\$377,467	\$403,890	\$432,162	\$462,413	\$494,782	\$529,417	\$566,476
103.00% Supplies	11,586	11,818	12,400	12,772	13,155	13,550	13,956	14,375	14,806	15,250	15,708	16,179	16,665
103.00% Other Services & Charges *	166,874	164,345	169,275	183,520	189,026	194,696	200,537	206,553	212,750	219,132	225,706	232,478	239,452
0.00% Improvements	0	0	0	0	0	0	0	0	0	0	0	0	0
100.00% Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00% Debt Services	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00% Transfers	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Fixed Expenses	\$436,849	\$442,784	\$469,643	\$504,417	\$531,875	\$561,019	\$591,961	\$624,818	\$659,718	\$696,796	\$736,197	\$778,074	\$822,593
Total Revenues	\$383,389	\$436,730	\$476,094	\$474,937	\$539,347	\$580,161	\$605,752	\$633,742	\$659,422	\$686,156	\$715,272	\$743,770	\$772,651
Gain/(Loss)	(\$53,459)	(\$6,054)	\$6,451	(\$29,481)	\$7,472	\$19,142	\$13,791	\$8,924	(\$296)	(\$10,640)	(\$20,925)	(\$34,304)	(\$49,942)
Quarterly Expenses	\$109,212.13	\$110,696.06	\$117,410.78	\$126,104.37	\$132,968.76	\$140,254.76	\$147,990.14	\$156,204.51	\$164,929.54	\$174,199.05	\$184,049.15	\$194,518.45	\$205,648.17
Penalties	\$8,323.70	\$12,894.00	\$11,250.00	\$11,250.00	\$11,250.00	\$11,250.00	\$11,250.00	\$11,250.00	\$11,250.00	\$11,250.00	\$11,250.00	\$11,250.00	\$11,250.00
2.00% Interest Earnings	(\$4,310)	(\$1,763)	\$4,711	\$1,997	\$4,762	\$7,690	\$10,305	\$13,406	\$15,813	\$18,362	\$21,383	\$24,122	\$26,826
Quarterly Expenses for Rates	\$105,198	\$99,565	\$101,450	\$112,858	\$116,957	\$121,314	\$126,435	\$131,548	\$137,867	\$144,587	\$151,416	\$159,146	\$167,573
Flat (Base) Rate													
3.00% Flat (Base) Rate	\$19.20	\$20.50	\$21.25	\$21.75	\$24.50	\$26.00	\$26.78	\$27.58	\$28.41	\$29.26	\$30.14	\$31.05	\$31.98
% of Revenue Residential	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
# of Residential Customers	4,642	4,642	4,695	4,695	4,695	4,695	4,695	4,695	4,695	4,695	4,695	4,695	4,695
% of Revenue Commercial	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
# of Commercial Customers	141	141	155	155	155	155	155	155	155	155	155	155	155
Revenue per Quarter	\$91,833.60	\$98,051.50	\$103,062.50	\$105,487.50	\$118,825.00	\$126,100.00	\$129,883.00	\$133,779.49	\$137,792.87	\$141,926.66	\$146,184.46	\$150,569.99	\$155,087.09

WATER FUND (No Irrigation Barr)
Volume (Usage) Rate

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Increase	Actual	Actual	Budget	Projected									
107.00%	\$86,130	\$88,874	\$95,989	\$102,708	\$109,898	\$117,591	\$125,822	\$134,630	\$144,054	\$154,138	\$164,927	\$176,472	\$188,825
103.00%	171,138	190,293	209,000	215,270	221,728	228,380	235,231	242,288	249,557	257,044	264,755	272,698	280,879
103.00%	530,357	290,170	386,000	397,580	409,507	431,793	434,446	447,480	460,904	474,731	488,973	503,642	518,752
0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
100.00%	306,255	308,832	333,750	337,500	341,250	345,000	348,750	352,500	356,250	360,000	363,750	367,500	371,250
0.00%	326,030	282,750	286,625	37,869	38,836	39,605	0	0	0	0	0	0	0
0.00%	0	0	0	663	3,379	6,264	8,875	12,552	17,951	22,085	26,141	30,120	34,012
0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Fixed Expenses	\$1,419,910	\$1,160,919	\$1,311,364	\$1,091,690	\$1,174,599	\$1,158,633	\$1,153,125	\$1,189,450	\$1,228,716	\$1,267,998	\$1,308,547	\$1,350,432	\$1,393,718
Total Revenues	\$1,111,337	\$1,272,544	\$1,425,888	\$1,375,197	\$1,375,546	\$1,403,057	\$1,431,119	\$1,459,741	\$1,488,936	\$1,518,714	\$1,549,089	\$1,580,070	\$1,611,672
Gain/(Loss)	(\$308,573)	\$111,625	\$114,524	\$283,506	\$250,948	\$244,425	\$277,993	\$270,291	\$260,220	\$250,717	\$240,542	\$229,638	\$217,954
Quarterly Expenses	\$354,977.38	\$290,229.73	\$327,841.06	\$272,922.62	\$281,149.65	\$289,658.13	\$288,281.27	\$297,362.49	\$307,179.02	\$316,999.43	\$327,136.65	\$337,608.09	\$348,429.41
Volume (Usage) Rate													
Current Residential Rate													
1 - 20,000 gallons	2.01	2.25	2.35	2.35	2.40	2.44	2.49	2.54	2.59	2.65	2.70	2.75	2.81
20,001 - 32,000 gallons	2.21	2.45	2.60	2.60	2.64	2.69	2.74	2.80	2.85	2.91	2.97	3.03	3.09
32,001 - 44,000 gallons	2.76	3.10	3.38	3.40	3.43	3.50	3.57	3.64	3.71	3.78	3.86	3.94	4.02
44,001 + gallons	4.14	4.60	5.75	6.00	5.83	5.94	6.06	6.18	6.31	6.43	6.56	6.69	6.83
% of Revenue Commercial													
Current Commercial Rate													
1 - 20,000 gallons	2.01	2.25	2.40	2.40	2.45	2.50	2.55	2.60	2.65	2.70	2.76	2.81	2.87
20,001 - 32,000 gallons	2.21	2.45	2.64	2.65	2.69	2.75	2.80	2.86	2.91	2.97	3.03	3.09	3.16
32,001 - 44,000 gallons	2.76	3.10	3.43	3.45	3.50	3.57	3.64	3.71	3.79	3.86	3.94	4.02	4.10
44,001 + gallons	4.14	4.60	5.83	6.05	5.95	6.07	6.19	6.32	6.44	6.57	6.70	6.84	6.97
Revenue per Quarter	\$255,034.22	\$318,136.00	\$356,471.95	\$343,799.19	\$343,886.61	\$350,764.34	\$357,779.63	\$364,935.22	\$372,233.93	\$379,678.61	\$387,272.18	\$395,017.62	\$402,917.98

* Supplies include chemicals, other operating supplies, equipment repair parts, and street materials.
 ** Other Services & Charges include engineering, legal, misc professional services, gopher state locates, electricity, gas, and repair maintenance.
 *** 2019 includes \$10,000 for irrigation enforcement.

WATER FUND (No Irrigation Ban)

Total

%	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Increase	Actual	Actual	Budget	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
105.00%	\$344,518	\$355,495	\$383,957	\$410,834	\$439,592	\$470,364	\$503,289	\$538,520	\$576,216	\$616,551	\$659,710	\$705,889	\$755,302
103.00%	\$182,724	\$202,111	\$221,400	\$228,042	\$234,883	\$241,930	\$249,188	\$256,663	\$264,363	\$272,294	\$280,463	\$288,877	\$297,543
0.00%	\$697,231	\$454,515	\$555,275	\$581,100	\$598,533	\$616,489	\$634,984	\$654,033	\$673,654	\$693,864	\$714,680	\$736,120	\$758,204
100.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
0.00%	\$306,255	\$308,832	\$333,750	\$337,500	\$341,250	\$345,000	\$348,750	\$352,500	\$356,250	\$360,000	\$363,750	\$367,500	\$371,250
0.00%	\$326,030	\$282,750	\$286,625	\$37,969	\$38,836	\$39,605	\$0	\$0	\$0	\$0	\$0	\$0	\$0
0.00%	\$0	\$0	\$0	\$663	\$3,379	\$6,264	\$8,875	\$12,552	\$17,951	\$22,085	\$26,141	\$30,120	\$34,012
0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Expenses	\$1,856,758	\$1,603,703	\$1,781,007	\$1,596,108	\$1,656,474	\$1,719,652	\$1,745,086	\$1,814,268	\$1,888,434	\$1,964,794	\$2,044,743	\$2,128,506	\$2,216,310
Total Revenues	\$1,494,726	\$1,709,274	\$1,901,982	\$1,850,133	\$1,914,894	\$1,983,218	\$2,036,870	\$2,093,483	\$2,148,357	\$2,204,871	\$2,264,361	\$2,323,840	\$2,384,323
Gain/(Loss)	(362,031.79)	105,570.82	120,974.45	254,025.40	258,419.94	263,566.87	291,784.48	279,215.29	259,923.21	240,076.82	219,617.34	195,334.14	168,012.55
Cash Balance	937,787.04	1,087,556.85	399,330.40	952,355.79	1,538,053.65	2,060,978.51	2,681,221.97	3,162,512.90	3,672,482.52	4,276,699.24	4,824,491.36	5,365,129.49	5,897,833.76
Beginning Cash Balance	2,276,379.44	937,787.04	1,087,556.85	399,330.40	952,355.79	1,538,053.65	2,060,978.51	2,681,221.97	3,162,512.90	3,672,482.52	4,276,699.24	4,824,491.36	5,365,129.49
Gain/(Loss) From Volume	(308,572.50)	111,625.07	114,523.55	283,506.28	250,947.86	244,424.86	277,993.46	270,290.93	260,219.62	250,716.72	240,542.12	229,638.13	217,954.27
Plus Depreciation	(53,459.29)	(6,054.25)	6,450.90	(29,480.88)	7,472.08	19,142.01	13,791.02	8,924.36	(296.41)	(10,639.90)	(20,924.78)	(34,303.99)	(49,941.72)
Less Improvements	408,340.00	411,776.10	445,000.00	450,000.00	455,000.00	460,000.00	465,000.00	470,000.00	475,000.00	480,000.00	485,000.00	490,000.00	495,000.00
Ending Cash Balance	1,438,359.90	373,631.36	1,136,500.00	38,500.00	6,500.00	66,500.00	6,500.00	141,500.00	106,500.00	6,500.00	56,500.00	56,500.00	56,500.00
Ending Cash Balance	937,787.04	1,087,556.85	399,330.40	952,355.79	1,538,053.65	2,060,978.51	2,681,221.97	3,162,512.90	3,672,482.52	4,276,699.24	4,824,491.36	5,365,129.49	5,897,833.76

SANITARY SEWER FUND
Fixed (Flat) Rates

%	Increase	Fixed Expenses	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
			Actual	Actual	Budget	Projected									
107.00%		Personnel Services	\$235,314	\$243,696	\$248,207	\$265,581	\$284,172	\$304,064	\$325,348	\$348,122	\$372,491	\$398,565	\$426,465	\$456,318	\$488,260
103.00%		Supplies	11,320	11,503	14,900	15,347	15,807	16,282	16,770	17,273	17,791	18,325	18,875	19,441	20,024
103.00%		Other Services & Charges	259,220	192,460	177,570	182,897	188,384	194,036	199,857	205,852	212,028	218,389	224,940	231,689	238,639
108.50%		M.C.E.S. Charges	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00%		Improvements	0	0	0	0	0	0	0	0	0	0	0	0	0
100.00%		Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00%		Debt Services	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00%		Estimated New Debt Service	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00%		Transfers	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total Fixed Expenses	\$505,854	\$447,659	\$440,677	\$463,825	\$488,363	\$514,381	\$541,975	\$571,248	\$602,310	\$635,279	\$670,280	\$707,447	\$746,923
		Total Revenues	\$930,234	\$992,370	\$1,135,616	\$1,152,014	\$1,182,400	\$1,215,070	\$1,246,198	\$1,281,041	\$1,316,860	\$1,353,665	\$1,391,478	\$1,433,154	\$1,475,887
		Gain/(Loss)	\$424,380	\$544,711	\$694,939	\$688,189	\$694,037	\$700,689	\$704,223	\$709,793	\$714,550	\$718,385	\$721,198	\$725,707	\$728,964
		Quarterly Expenses	126,464	111,915	110,169	115,956	122,091	128,595	135,494	142,812	150,578	158,820	167,570	176,862	186,731
		Penalties	6,708	13,676	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
		Special Assessments Collections	0	0	105,000	97,350	94,513	91,676	88,840	86,003	83,166	80,329	77,492	74,92	72,492
2.00%		Interest Earnings	(19,067)	(30,950)	(6,190)	(1,664)	1,069	5,171	6,789	11,152	15,492	19,787	24,031	28,208	32,317
		Quarterly Expenses for Rates	145,531	129,189	116,359	117,620	121,022	123,424	128,704	131,660	135,086	139,033	143,539	148,653	154,413
		Commercial/Industrial Rate	\$42.82	\$45.00	\$45.15	\$46.00	\$47.38	\$48.80	\$50.27	\$51.77	\$53.33	\$54.93	\$56.57	\$58.27	\$60.02
		Include 5,000 gals	\$5.40	\$15.00	\$20.00	\$25.00	\$31.25	\$32.81	\$34.45	\$36.18	\$37.98	\$39.88	\$41.88	\$43.97	\$46.17
		Residential Flat (Base) Rate	\$48.38	\$50.80	\$51.00	\$52.00	\$53.56	\$55.17	\$56.82	\$58.53	\$60.28	\$62.09	\$63.95	\$65.87	\$67.85
		% of Revenue Residential	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
		# of Residential Customers	4,642	4,642	4,742	4,742	4,742	4,742	4,742	4,742	4,742	4,742	4,742	4,742	4,742
		% of Revenue Commercial	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
		# of Commercial Customers	141	141	163	163	163	163	163	163	163	163	163	163	163
		Revenue per Quarter	\$230,617.58	\$242,153.96	\$249,201.45	\$254,082.00	\$261,704.46	\$269,555.59	\$277,642.26	\$285,971.53	\$294,550.68	\$303,387.20	\$312,488.81	\$321,863.48	\$331,519.38

SANITARY SEWER FUND
Total

%	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	Actual	Actual	Budget	Projected									
Increase													
107.00%	\$313,752	\$324,927	\$330,942	\$354,108	\$378,895	\$405,418	\$433,797	\$464,163	\$496,655	\$531,421	\$568,620	\$608,423	\$651,013
103.00%	\$29,928	\$27,356	\$39,900	\$41,097	\$42,330	\$43,600	\$44,908	\$46,255	\$47,643	\$49,072	\$50,544	\$52,060	\$53,622
108.50%	\$421,622	\$286,727	\$767,070	\$790,082	\$813,785	\$838,198	\$863,344	\$889,244	\$915,922	\$943,399	\$971,701	\$1,000,852	\$1,030,878
0.00%	\$839,533	\$904,954	\$848,236	\$907,613	\$971,145	\$1,039,126	\$1,111,864	\$1,189,695	\$1,272,974	\$1,362,082	\$1,457,427	\$1,559,447	\$1,668,609
0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
100.00%	\$225,548	\$238,148	\$238,148	\$238,148	\$238,148	\$238,148	\$238,148	\$238,148	\$238,148	\$238,148	\$238,148	\$238,148	\$238,148
0.00%	\$55,760	\$55,127	\$56,663	\$55,763	\$57,036	\$58,167	\$0	\$0	\$0	\$0	\$0	\$0	\$0
0.00%	\$0	\$0	\$0	\$800	\$4,131	\$7,622	\$10,212	\$13,867	\$19,244	\$23,354	\$27,386	\$31,339	\$35,205
0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Expenses	\$1,886,143	\$1,837,240	\$2,280,959	\$2,387,611	\$2,505,471	\$2,630,279	\$2,702,274	\$2,841,373	\$2,990,585	\$3,147,476	\$3,313,827	\$3,490,271	\$3,677,475
Total Revenues	\$1,550,392	\$2,160,963	\$2,291,709	\$2,597,261	\$2,988,958	\$3,111,956	\$3,237,929	\$3,372,358	\$3,512,743	\$3,659,342	\$3,812,439	\$3,975,163	\$4,144,996
Gain/(Loss)	(\$335,751)	\$323,723	\$10,750	\$209,650	\$483,488	\$481,677	\$535,655	\$530,985	\$522,158	\$511,866	\$498,612	\$484,893	\$467,521
Beginning Cash Balance	\$1,363,565	(\$128,962)	(\$430,378)	(\$332,714)	\$213,850	\$1,034,251	\$1,357,842	\$2,230,411	\$3,098,310	\$3,957,382	\$4,806,162	\$5,641,687	\$6,463,493
Gain (Loss) From Volume	(760,131)	(220,988)	(684,189)	(478,539)	(210,549)	(219,012)	(168,569)	(178,808)	(192,392)	(206,519)	(222,586)	(240,815)	(261,442)
Gain (Loss) From Fixed	424,380	544,711	694,939	688,189	694,037	700,689	704,223	709,793	714,550	718,385	721,198	725,707	728,964
Depreciation	300,730	317,531	317,531	317,531	317,531	317,531	317,531	317,531	317,531	317,531	317,531	317,531	317,531
Less Improvements	(1,532,688)	(1,022,053)	(310,000)	(60,000)	(60,000)	(555,000)	(60,000)	(60,000)	(60,000)	(60,000)	(60,000)	(60,000)	(60,000)
Ending Cash	(128,962)	(430,378)	(332,714)	213,850	1,034,251	1,357,842	2,230,411	3,098,310	3,957,382	4,806,162	5,641,687	6,463,493	7,267,929

STORMWATER FUND

Operating

%	Operating	2017 Actual	2018 Actual	2019 Budget	2020 Projected	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected	2028 Projected	2029 Projected
107.00%	Personnel Services	\$91,431	\$95,401	\$158,734	\$169,845	\$181,735	\$194,456	\$208,068	\$222,633	\$238,217	\$254,892	\$272,735	\$291,826	\$312,254
103.00%	Supplies	3,729	3,418	4,050	4,172	4,297	4,426	4,558	4,695	4,836	4,981	5,130	5,284	5,443
103.00%	Other Services & Charges	108,739	69,226	134,160	138,185	142,330	146,600	150,998	155,528	160,194	165,000	169,950	175,048	180,300
0.00%	Improvements	0	0	0	0	0	0	0	0	0	0	0	0	0
100.00%	Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00%	Debt Services	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00%	Transfers	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total Fixed Expenses	\$203,899	\$168,045	\$296,944	\$312,202	\$328,362	\$345,482	\$363,624	\$382,856	\$403,247	\$424,873	\$447,815	\$472,159	\$497,996
	Total Revenues	\$203,899	\$261,989	\$270,481	\$312,202	\$328,362	\$345,482	\$363,624	\$382,856	\$403,247	\$424,873	\$447,815	\$472,159	\$497,996
	Gain/(Loss)	\$0	\$93,944	(\$26,463)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Quarterly Expenses	\$50,974.75	\$42,011.25	\$74,236.00	\$78,050.42	\$82,090.39	\$86,370.44	\$90,906.12	\$95,713.98	\$100,811.72	\$106,218.25	\$111,953.71	\$118,039.67	\$124,499.12
	Penalties	\$2,375.75	\$5,331.75	\$3,000.00	\$1,750.00	\$1,750.00	\$1,750.00	\$1,750.00	\$1,750.00	\$1,750.00	\$1,750.00	\$1,750.00	\$1,750.00	\$1,750.00
2.00%	Interest Earnings	\$7,802	\$5,615	\$5,715	\$5,808	\$5,816	\$5,580	\$4,906	\$4,144	\$3,231	\$2,485	\$1,725	\$962	\$201
	Quarterly Expenses for Rates	\$40,797	\$31,064	\$65,521	\$70,493	\$74,525	\$79,041	\$84,250	\$89,820	\$95,830	\$101,984	\$108,478	\$115,328	\$122,548
	Rate to Fund Operations	\$9.28	\$14.28	\$14.89	\$17.33	\$18.25	\$19.24	\$20.31	\$21.44	\$22.65	\$23.93	\$25.28	\$26.70	\$28.22
	Current Rate	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	# of Residential Customers	4,395	4,395	4,395	4,395	4,395	4,395	4,395	4,395	4,395	4,395	4,395	4,395	4,395
	Revenue per Quarter	\$40,785.60	\$62,760.60	\$65,441.55	\$76,161.04	\$80,199.01	\$84,538.04	\$89,242.08	\$94,240.59	\$99,566.35	\$105,159.60	\$111,084.84	\$117,361.74	\$124,011.33

STORMWATER FUND
New Rate Study with new improvements

		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		
		Actual	Budget	Actual	Budget	Actual	Budget	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected													
Total																												
Increase	Total Expenses	\$91,431	\$158,734	\$95,401	\$158,734	\$169,845	\$158,734	\$181,735	\$194,456	\$208,068	\$238,217	\$254,892	\$272,735	\$291,826	\$312,254	\$337,954	\$367,171	\$397,954	\$434,426	\$472,786	\$513,225	\$556,397	\$603,000	\$652,290	\$703,000	\$758,426	\$817,826	\$881,254
103.00%	Personnel Services	\$3,943	\$5,050	\$3,508	\$5,050	\$5,202	\$5,050	\$5,358	\$5,518	\$5,684	\$5,854	\$6,030	\$6,211	\$6,397	\$6,589	\$6,787	\$6,989	\$7,195	\$7,406	\$7,621	\$7,838	\$8,058	\$8,283	\$8,513	\$8,748	\$8,988	\$9,232	\$9,485
103.00%	Other Services & Charges	\$117,289	\$199,160	\$77,639	\$199,160	\$205,135	\$199,160	\$211,289	\$217,628	\$224,156	\$237,807	\$244,942	\$252,290	\$259,859	\$267,654	\$275,654	\$283,854	\$292,354	\$301,154	\$310,254	\$320,654	\$331,354	\$342,354	\$353,654	\$365,354	\$377,454	\$390,000	\$403,000
0.00%	Improvements	\$222,596	\$305,000	\$22,154	\$305,000	\$215,000	\$305,000	\$255,000	\$305,000	\$330,000	\$340,000	\$350,000	\$360,000	\$370,000	\$380,000	\$390,000	\$400,000	\$410,000	\$420,000	\$430,000	\$440,000	\$450,000	\$460,000	\$470,000	\$480,000	\$490,000	\$500,000	\$510,000
100.00%	Depreciation	\$19,080	\$23,301	\$22,191	\$23,301	\$24,466	\$23,301	\$25,689	\$26,973	\$28,322	\$29,738	\$31,225	\$32,786	\$34,426	\$36,147	\$37,954	\$39,854	\$41,854	\$43,954	\$46,154	\$48,454	\$50,854	\$53,354	\$55,954	\$58,654	\$61,454	\$64,354	\$67,354
0.00%	Debt Services	\$27,389	\$27,833	\$27,078	\$27,833	\$27,391	\$27,833	\$28,016	\$28,571	\$29,126	\$29,681	\$30,236	\$30,791	\$31,346	\$31,901	\$32,456	\$33,011	\$33,566	\$34,121	\$34,676	\$35,231	\$35,786	\$36,341	\$36,896	\$37,451	\$38,006	\$38,561	\$39,116
0.00%	Estimated New Debt Service	\$0	\$0	\$0	\$0	\$2,367	\$0	\$23,671	\$74,681	\$111,169	\$147,062	\$186,365	\$206,245	\$225,654	\$244,563	\$263,972	\$283,881	\$304,290	\$325,199	\$346,608	\$368,517	\$390,926	\$413,835	\$437,244	\$461,153	\$485,562	\$510,471	\$535,880
0.00%	Transfers	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Expenses		\$481,728	\$719,078	\$247,971	\$719,078	\$649,405	\$719,078	\$730,757	\$852,827	\$907,399	\$976,168	\$1,030,196	\$1,077,092	\$1,125,075	\$1,178,820	\$1,232,565	\$1,286,310	\$1,340,055	\$1,393,800	\$1,447,545	\$1,501,290	\$1,555,035	\$1,608,780	\$1,662,525	\$1,716,270	\$1,770,015	\$1,823,760	\$1,877,505
Total Revenues		\$572,178	\$566,595	\$542,547	\$566,595	\$604,832	\$566,595	\$635,778	\$668,621	\$703,565	\$740,555	\$779,746	\$821,114	\$864,889	\$911,217	\$960,255	\$1,009,293	\$1,058,331	\$1,107,369	\$1,156,407	\$1,205,445	\$1,254,483	\$1,303,521	\$1,352,559	\$1,401,597	\$1,450,635	\$1,500,673	\$1,550,711
Gain/(Loss)		\$90,450	(\$152,483)	\$294,576	(\$152,483)	(\$44,574)	(\$152,483)	(\$94,979)	(\$184,206)	(\$203,834)	(\$235,613)	(\$209,082)	(\$212,203)	(\$213,857)	(\$218,565)	(\$223,273)	(\$227,981)	(\$232,689)	(\$237,397)	(\$242,105)	(\$246,813)	(\$251,521)	(\$256,229)	(\$260,937)	(\$265,645)	(\$270,353)	(\$275,061)	(\$279,769)
Storm Water Rate		\$20.00	\$21.00	\$20.00	\$21.00	\$22.50	\$21.00	\$23.68	\$24.93	\$26.29	\$27.73	\$29.25	\$30.86	\$32.55	\$34.34	\$36.24	\$38.24	\$40.34	\$42.54	\$44.84	\$47.24	\$49.74	\$52.34	\$55.04	\$57.84	\$60.74	\$63.74	\$66.84
Beginning Cash Balance		745,180.94	1,216,443.37	892,279.37	1,216,443.37	1,163,101.08	1,216,443.37	1,163,101.08	1,115,924.33	981,232.40	828,710.87	646,298.72	496,915.71	345,099.11	192,346.73	40,235.12	(218,565.21)	(417,451.30)	(616,337.39)	(815,223.48)	(1,014,109.57)	(1,213,000.66)	(1,411,886.75)	(1,610,772.84)	(1,809,658.93)	(2,008,545.02)	(2,207,431.11)	(2,406,317.20)
Gain/(Loss) From Improvements		90,449.43	(126,019.75)	200,631.60	(126,019.75)	(44,573.51)	(126,019.75)	(94,978.56)	(184,206.33)	(203,834.15)	(235,612.89)	(209,081.55)	(212,203.09)	(213,857.34)	(218,565.21)	(223,273.08)	(227,981.97)	(232,690.86)	(237,399.75)	(242,108.64)	(246,817.53)	(251,526.42)	(256,235.31)	(260,944.20)	(265,653.09)	(270,361.98)	(275,070.87)	
Gain/(Loss) From Operating		0.00	26,462.80	93,944.40	26,462.80	0.00	26,462.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Depreciation		25,440.00	31,067.40	29,588.00	31,067.40	32,620.77	31,067.40	34,251.81	35,964.40	37,762.62	39,650.75	41,633.29	43,714.95	45,900.70	48,195.73	50,605.52	53,141.31	55,777.10	58,502.89	61,318.68	64,224.47	67,220.26	70,306.05	73,481.84	76,747.63	80,103.42	83,549.21	
Grant Proceeds		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Special Assessment Collection		31,209.00	13,550.00	0.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	13,550.00	
Transfers In		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ending Cash Balance		892,279.37	1,216,443.37	1,216,443.37	1,161,503.82	1,163,101.08	1,161,503.82	1,115,924.33	981,232.40	828,710.87	646,298.72	496,915.71	345,099.11	192,346.73	40,235.12	(218,565.21)	(417,451.30)	(616,337.39)	(815,223.48)	(1,014,109.57)	(1,213,000.66)	(1,411,886.75)	(1,610,772.84)	(1,809,658.93)	(2,008,545.02)	(2,207,431.11)	(2,406,317.20)	

Residential Bills	2016	2017	2018	2019	Proposed	
Residential Water Use	58,156,961	58,573,470	81,283,663	77,481,114	74,745,311	
# Customers	4,587	4,620	4,642	4,692	4,738	
Average Residential Water Use	12,679	12,678	17,510	16,513	15,776	
Quarterly Bill Based on Proposed Rates						
If used average water use:						%
Water Base Charge	\$17.75	\$19.20	\$20.50	\$21.25	\$21.75	Change
Water Usage Charge	\$24.72	\$25.48	\$39.40	\$38.81	\$37.07	
Sewer Base Charge	\$46.00	\$48.38	\$50.80	\$51.00	\$52.00	
Sewer Usage Charge	\$8.29	\$15.36	\$23.03	\$32.31	\$34.27	
Storm Water Charge	\$17.00	\$20.00	\$20.00	\$21.00	\$22.50	
Total Bill	\$113.76	\$128.42	\$153.73	\$164.36	\$167.59	1.96%
3,567 Accounts with 0 - 20,000 gallons used						
Average consumption 9,675 gallons						
Water Base Charge	\$17.75	\$19.20	\$20.50	\$21.25	\$21.75	
Water Usage Charge	\$20.07	\$20.69	\$23.16	\$23.69	\$22.74	
Sewer Base Charge	\$46.00	\$48.38	\$50.80	\$51.00	\$52.00	
Sewer Usage Charge (Average winter consumption)	\$5.51	\$10.20	\$15.30	\$18.41	\$22.12	
Storm Water Charge	\$17.00	\$20.00	\$20.00	\$21.00	\$22.50	
Total Bill	\$106.33	\$118.46	\$129.75	\$135.35	\$141.10	4.25%
727 Accounts with 20,001 - 32,000 gallons used						
Average consumption 22,594 gallons						
Water Base Charge	\$17.75	\$19.20	\$20.50	\$21.25	\$21.75	
Water Usage Charge	\$48.87	\$50.35	\$56.25	\$59.16	\$53.74	
Sewer Base Charge	\$46.00	\$48.38	\$50.80	\$51.00	\$52.00	
Sewer Usage Charge (Average winter consumption)	\$20.57	\$38.10	\$57.15	\$75.54	\$85.81	
Storm Water Charge	\$17.00	\$20.00	\$20.00	\$21.00	\$22.50	
Total Bill	\$150.19	\$176.03	\$204.70	\$227.94	\$235.81	3.45%
216 Accounts with over 32,001 - 44,000 gallons used						
Average consumption 34,217 gallons						
Water Base Charge	\$17.75	\$19.20	\$20.50	\$21.25	\$21.75	
Water Usage Charge	\$78.04	\$80.94	\$90.37	\$95.14	\$85.74	
Sewer Base Charge	\$46.00	\$48.38	\$50.80	\$51.00	\$52.00	
Sewer Usage Charge (Average winter consumption)	\$34.31	\$63.54	\$95.30	\$126.35	\$144.07	
Storm Water Charge	\$17.00	\$20.00	\$20.00	\$21.00	\$22.50	
Total Bill	\$193.10	\$232.06	\$276.98	\$314.74	\$326.06	3.60%
228 Accounts with over 44,001 gallons used						
Average consumption 72,002 gallons						
Water Base Charge	\$17.75	\$19.20	\$20.50	\$21.25	\$21.75	
Water Usage Charge	\$230.38	\$244.35	\$272.17	\$327.95	\$287.01	
Sewer Base Charge	\$46.00	\$48.38	\$50.80	\$51.00	\$52.00	
Sewer Usage Charge (Average winter consumption)	\$76.04	\$140.81	\$211.22	\$242.26	\$269.94	
Storm Water Charge	\$17.00	\$20.00	\$20.00	\$21.00	\$22.50	
Total Bill	\$387.17	\$472.74	\$574.69	\$663.46	\$653.20	-1.55%



**Utility Commission Meeting
July 17, 2019**

Agenda Number: 10

Subject: Next Meeting Date – Agenda Items

Documentation:

Action / Motion for Consideration:

August 2019						
SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31



**Utility Commission Meeting
July 17, 2019**

Agenda Number: 11 - 12

Subject: Added Agenda Items
Adjournment

Documentation: FYI Items

Action / Motion for Consideration:

