

# Department of Municipal Utilities

April 4, 2019

# What We Do and Who We Serve

- Water Fund
- Sewer Fund
- Power Utility Fund

## Water Fund:

- Water Filtration
- Water Maintenance
- Water Billing (50%)



Sewer Fund: Sewage Treatment, Sewer Maintenance, & 50% Water Billing



## Power Utility Fund: Mill Street Hydro



## North Division Street Hydro



# Water Fund Operating Budgets

		2018-19		2019-20		Percent Change
<b>Water Filtration</b>						
Operating Budget		\$1,672,486		\$1,725,436		3.17%
FTEs		9.0		9.0		
<b>Water Maintenance Dept</b>						
Operating Budget		\$1,010,478		\$1,056,810		4.59%
FTEs		6.5		7.0		
<b>Water Billing Dept</b>						
Operating Budget		\$293,566		\$264,527		-9.89%
FTEs		3		3		
<b>Total Water Fund</b>						<b>2.36%</b>

# Changes in Services or Other Significant Changes

- Water Filtration Plant (3.17% Increase)
  - Adds \$16,500 contribution to Watershed Inspection Program – Total \$165,000
  - Maintains 50% Salary for Technical Director of Municipal Utilities
  - Complements ongoing resources needed for Capital and Operation Upgrades
  - Provides funding to begin Valve Actuator Replacement
  - Includes full support to PAC System Operating Costs (\$25k Chemical, \$20k lab testing, \$5k overtime)
  - Maintains staffing and supports promotion of an Operator Trainee - Operator
- Water Maintenance Department (4.59% Increase)
  - Includes staffing support for Plumbing Inspector
  - Includes budget to complement the Lead Service Replacement Grant Program – Fully Reimbursed
  - Includes funding to pave the Logan Street Parking Lot
  - Includes funding to support the ongoing GIS/Implementation Project
- Water Billing Department – (9.89% Decrease)
  - Online Customer Portal Upgrade in 2018-19 complete
  - Includes staffing support for Plumbing Inspector

# Sewer Fund Operating Budgets

		2018-19		2019-20		Percent Change
<b>Sewage Treatment</b>						
Operating Budget		\$2,659,798		\$2,768,617		4.09%
FTEs		15.5		15.5		
<b>Sewer Maintenance Dept</b>						
Operating Budget		\$974,882		\$994,918		2.06%
FTEs		7.5		7.5		
<b>Total Sewer Fund</b>						<b>3.55%</b>

# Changes in Services or Other Significant Changes

- Sewage Treatment Plant (4.09% Increase)
  - \$80,000 increase to Sludge Hauling (next year much larger increase expected)
  - Operating Budget supports UV Upgrades Capital Project
  - Provides funding to replace Scum Pump
  - Provides funding to restock parts inventory
  - Provides funding to spot repair and restore site paving
  - Provides funding to further evaluate sludge alternatives
  - Maintains 50% Technical Director Position
  - Expect reduction to UV replacement parts and electric operating cost in 2020-2021
  - Engineering Planning Grant match funding included in budget
- Sewer Maintenance Department (2.06% Increase)
  - Primary Increase attributed to maintaining staffing levels accommodating staff transfers
  - Includes funding to purchase frames/grates/manhole covers to assist the annual road program
  - Includes funding to support ongoing GIS Survey and Mapping

# Power Utility Fund Operating Budgets

		2018-19		2019-20		Percent Change
<b>Hydroelectric Facilities</b>						
Operating Budget		\$128,791		\$123,045		-4.46%
FTEs		.5		.5		
<b>LFGE Facility</b>						
Operating Budget		\$5,000		\$5,000		0%
FTEs		0		0		

## Changes in Services or Other Significant Changes

- Hydro Facilities (4.46% Decrease): Budget supports technical assistance and regular part replacements required at both hydro plants.
- LFGE Facility (0% Change): Budget will be 100% offset expenses offset by rental fee for storage to WWTP.

# Items not Included in Final Budget

- Slipline Funding in Sanitary Sewer Maintenance operating budget – \$750,000 every other year proposed in 5 year capital plan to facilitate incremental upgrades to collection system.
- Repaving of WWTP grounds – look to include upgrades in future capital planning documents
- Funding to improve entire site at Logan Street Garage – incremental funding included to make improvements over multiple operating budgets
- Zebra Mussel Control Upgrades – included in capital plan
- Vehicle and equipment replacement – Working with Comptroller to set up reserve funds to continue replacing equipment as necessary.

# Rates and Fees

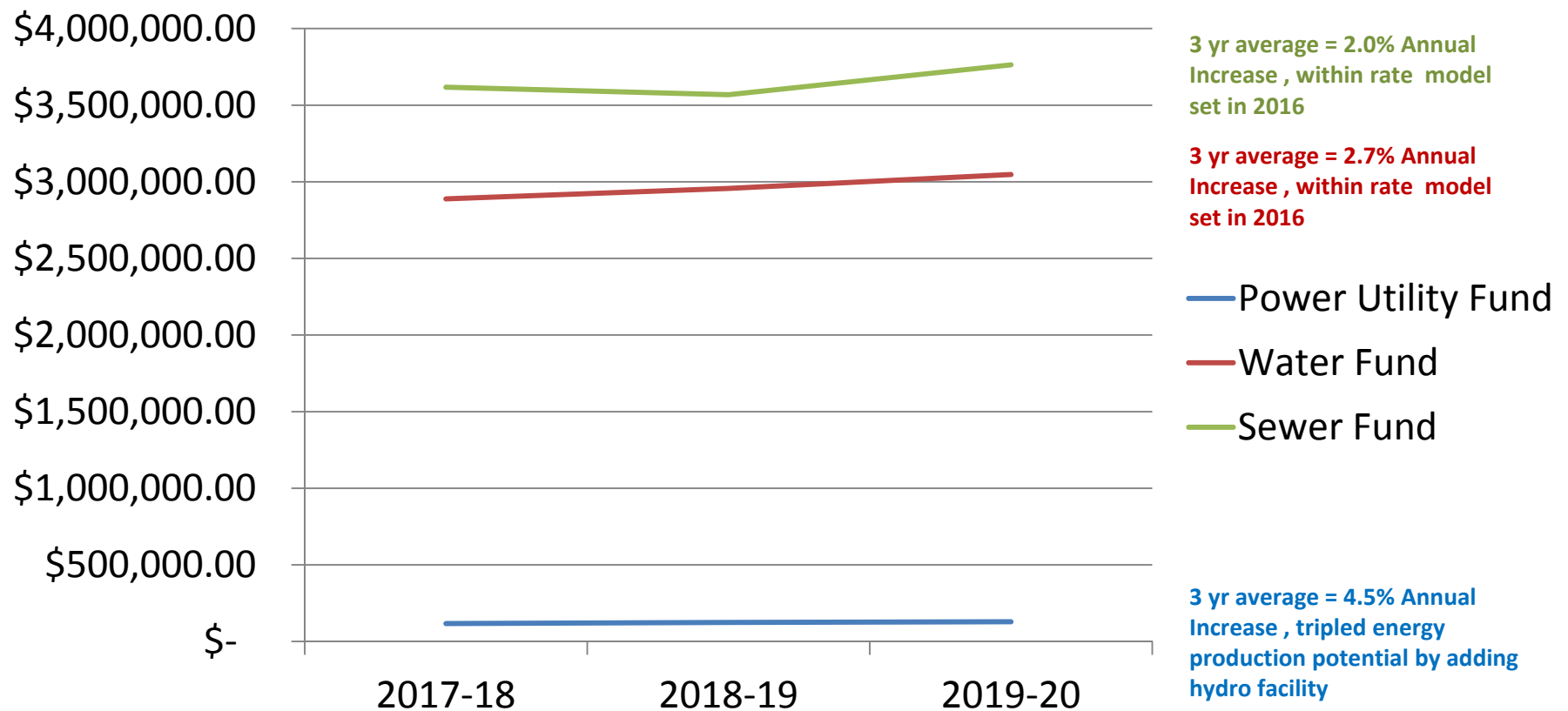
- No Sewer or Water Rate Adjustment Required
  - 3<sup>rd</sup> Year of 5 Year Rate holding strong
  - Increase in waste hauling is good for business!
  - Major operating increase to sludge hauling expected in 2020-21 budget has our attention
- Fee Structure Adjustment
  - River work fee – under consideration
  - Sewer Service Fees – No Change
  - Plumbing Inspection fees under review – Planning Department
  - Water Service Fees adjusted to offset actual costs – see next slide

WATER FEES													
FEE TYPE							FEE AMOUNT			PROPOSED FEE AMOUNT			
Lab Testing- Coliform Testing							\$25.00			\$ 25.00			
Meter Replacement Fee													
	5/8"						\$2.00 per quarter			\$ - Inc. in Service Fee			
	3/4"						\$3.00 per quarter			\$ - Inc. in Service Fee			
	1"						\$4.00 per quarter			\$ - Inc. in Service Fee			
	1 1/2"						\$7.00 per quarter			\$ - Inc. in Service Fee			
	>1 1/2"						Actual cost			\$ - Inc. in Service Fee			
Service Connections & Renewals- Short Side							\$1,500.00			\$1,750.00 Reflect actual cost			
Service Connections & Renewals- Long Side							\$2,000.00			\$2,250.00 Reflect actual cost			
Service Repairs @ main or curb							Actual cost			Actual Cost			
Replacement of curb box							Actual cost			Actual Cost			
Main Taps 3/4"-1 1/2"							\$200.00 plus materials			\$ 200.00 plus materials			
Main Taps >2"							\$400.00 plus labor			\$ 750.00 plus labor			
New Meter any size										Meter Cost			
Meter test							\$50.00			\$ 50.00			
Shut off/Turn on water							\$50.00			\$ 50.00 ea.			
Shut off/ Turn on water after hours							\$50.00 plus labor			\$ 50.00 ea. plus labor			
Use of Fire Hydrant							\$50.00 plus water			\$ 50.00 plus water			
Install/Remove Meter							\$50.00			\$ 50.00			
Meter Repairs (all)- 1 hour or less							\$25.00			\$ 25.00			
Meter Repairs (all)- over 1 hour							\$50.00			\$ 50.00			

## WATER FEES (Continued)

FEE TYPE					FEE AMOUNT			PROPOSED FEE AMOUNT				
Backhoe, Dump Truck/hr. (Resident)							\$100.00			\$125.00	Market Rate	
	Non-Resident						\$125.00			\$150.00	Market Rate	
	Commercial						\$125.00			\$200.00	Market Rate	
Vac- Tor/hr. (Resident)							\$175.00			\$250.00	Market Rate	
	Non-Resident						\$250.00			\$500.00	Market Rate	
	Commercial						\$250.00			\$500.00	Market Rate	
	Daily Rate									\$ 3,000.00	Market Rate	
Road Plates Rental (set of 2) per day							\$100.00			\$ 100.00		
Leak Field Investigation				1st						Free		
				2nd					\$ 75.00			
				3rd					\$ 150.00			
Welder to thaw pipes				1st		\$50.00			\$50.00			
				2nd		\$150.00			\$150.00			
				3rd		\$500.00			\$500.00			
				4th		\$1,000.00			\$1,000.00			
Commercial Meter Test (over 10 yrs. old)							Actual cost			Actual Cost		
Frozen Meter												
	First Instance						Meter cost			Meter Cost		
	Second or more instances						Meter cost plus labor			Meter Cost + 50%		
Labor Rate Outside City							Actual cost plus 50%			Actual Cost + 50%		

# 3 Year Operating Expense Review



# 2018-19 Highlight Goals

- Complete every special project, identified in operating budget at or below budget for the fiscal year. ✓
- Operate Hydro Facilities at a profit to begin to repay General Fund/Decrease LFGEF Bond Obligation. ✗
- Finalize PortaPAC System and treat 100% of HAB's related Microcystin. ✓
- Completely Close out \$3.4 million LPS and Water Filtration Plant Project Capital Project ✓
- Implement \$2.5 million North Street Water Main Replacement Project ✓
- Complete SCADA Upgrades Project at WTP. ✓
- Complete Lagoon Dredging and reinstate treatment facility. ✓
- Complete Design and begin implementation of \$2.0 million UV system upgrades ✓
- Finalize Water GIS Asset Inventory Project ✓
- Begin implementation of Sewer GIS Asset Inventory Project. ✓
- Begin to replace wholesale sewer and water meters ✗
- Complete \$250,000 in slipline contracts to reduce I&I ✓
- Continue to apply for funding opportunities and align forces with the County for Watershed Improvement Projects ✓
- Finalize new Watershed Rules and Regulation in coordination with County and Town of Owasco ✗ ✓
- Planning and Design of 4 – 6 water main replacement projects, and design for upgrades at the Water Filtration Plant. ✓
- Continue to plan for and remain nimble allowing for swift reaction to aging infrastructure failures ✓
- Implement a hydrant painting program (4 year cycle) ✗

# Lagoon Upgrades 2018-2019



# North Street Water Main Upgrades



# 2019-20 Highlight Goals

- Complete every special project, identified in operating budget at or below budget for the fiscal year.
- Operate Hydro Facilities at a profit to begin to repay General Fund/Decrease LFGEF Bond Obligation.
- Be prepared for Harmful Algal Bloom Season and maintain 100% removal of Microcystin.
- Bid out and begin to replace water mains on Chase Street and Pulsifer Drive
- Complete the Lead Service Line Replacement Grant Program
- Permit and bring Lagoon back to full operation.
- Install state of the art UV disinfection system and replace settled sewage pumps at WWTP.
- Finalize Sewer GIS Asset Inventory Project
- Complete CSO analysis, Engineering Planning Grant and apply for I&I Study Grant
- Begin to replace wholesale sewer meters
- Continue to Slipline and replace sewer system to reduce I&I - \$750,000 CIP.
- Continue to apply for funding opportunities and align forces with the County for Watershed Improvement Projects
- Finalize new Watershed Rules and Regulation in coordination with County and Town of Owasco – October 2019!
- Planning and Design of 2 additional water main replacement projects.
- Complete Zebra Mussel Control Project and potentially seek grant funding
- Complete comprehensive analysis of slow sand building and determine best path forward to support CIP at the WFP
- Complete comprehensive sludge drying plan and determine best path forward at the WWTP
- Implement a hydrant painting program (4 year cycle)
- Continue to plan for and remain nimble allowing for swift reaction to aging infrastructure failures

# Microcystin Final Upgrades



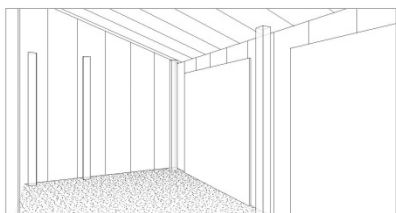
FIG 3  
1/4" = 1'-0"



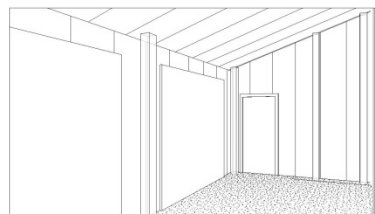
FIG 1  
1/4" = 1'-0"



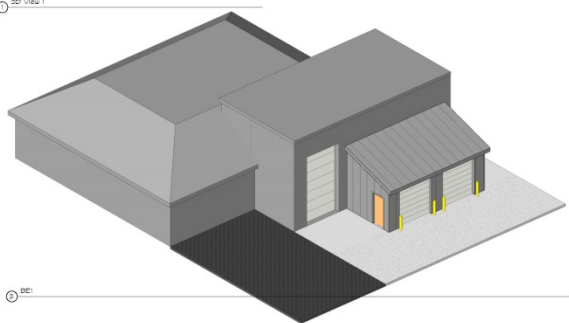
FIG 2  
1/4" = 1'-0"



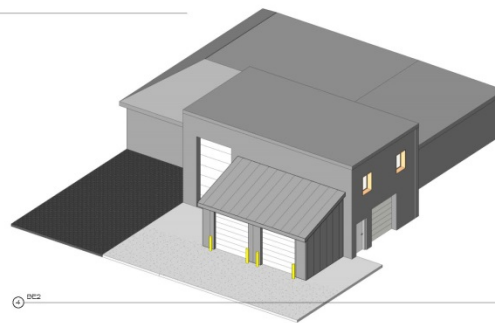
3D View 1



3D View 2



DEC



DEC

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ARCHITECTS: BOSTON

3D BIRDSEYE

UPPER PUMP STATION

CITY OF AUBURN WATER DEPARTMENT

22 WHITE BRIDGE ROAD, AUBURN, MA 01501

Revision Schedule

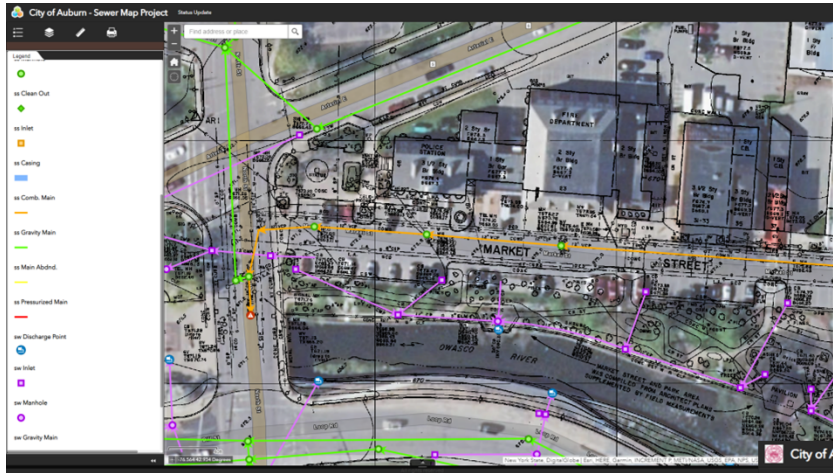
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SK2

1/4" = 1'-0"



# Sewer GIS Mapping (Ongoing)



# Water GIS Mapping (Complete)

