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***APPENDIX F***  
***WASTEWATER ENTERPRISE FUND***



**DEPARTMENT: Wastewater; Falmouth Enterprise Fund 040**

Account Number	Actual 2019 20	Budget 2020-21	Anticipated 2020-21	Proposed Budget 2021-22	FY22 Bud vs FY21 Bud	Note: Variance between 21 budget and 21 anticipated affected by not filling plant assistant operator positions and delay of West Falmouth improvements that were budgeted in FY21
<b>Falmouth only cost centers, including gross debt payments before reimbursements</b>						
201	973,003	1,063,292	998,381	1,047,439	-15,853	Falmouth users 100 %
201-1	531,161	885,254	540,952	888,733	3,478	
<b>Combined Falmouth / Cumberland cost centers, shared based on flow contributions</b>						
202	378,188	466,310	428,439	455,729	-10,581	Falmouth users approx. 77%
202-1	30,418	45,398	56,200	59,706	14,307	Falmouth users approx. 57 %
202-2	188,154	153,352	146,583	157,780	4,428	Falmouth users approx. 77%
202-3	149,854	157,685	154,228	205,026	47,341	Falmouth users approx. 77%
<b>DEPARTMENT TOTAL</b>	<b>2,250,776</b>	<b>2,771,291</b>	<b>2,324,783</b>	<b>2,814,411</b>	<b>43,120</b>	<b>2.0%</b>
Number	Account Name					
<b>LABOR &amp; BENEFITS</b>						
4010	557,469	628,582	615,424	641,077	12,495	Funding for labor portion of the activities that serve the combined Falmouth / Cumberland system.
4030	32,492	33,415	25,600	33,415	0	Funding for overtime labor weekends and off hours for non - exempt employees.
4050	102,320	134,352	102,700	135,093	741	Department's share of employer's health insurance premiums.
4060	52,409	50,910	50,296	53,298	2,387	Department's share of employer retirement contributions
4061	6,143	6,172	6,099	6,354	182	Department share of health saving plan
4070	46,512	47,652	41,270	52,033	4,380	Department's share of employer Social Security.
4080	64	100	100	100	0	Employer's share of the group life insurance.
4090	2,991	2,500	3,170	2,500	0	Employers share of the income protection insurance cost.
4100	9,871	12,445	9,750	12,923	478	Funding for Worker's Compensation insurance based on the department's specific payroll, based on manual rate and the Town's experience rate.
4110	0	800	0	800	0	Generally inactive, represents roughly 10% of Town unemployment charges
<b>SERVICES</b>						
5010	535	650	350	650	0	Postage and maintenance costs on the town hall mail equipment.
5020	1,774	2,165	1,400	2,165	0	Department's prorated share of town wide telephone expenses.
5030	0	50	0	50	0	Employer's cost reimbursement for use of personal vehicle.
Line Item Budget Request Justification						

5040	EDUCATION/MEETINGS	1,472	6,960	1,940	6,960	0	0	Cost for meetings and seminars, primarily required training to maintain employee certifications.
5070	MAPS/BLUEPRINTS	0	200	0	200	0	0	Funds for plan copies and updated tax maps.
5080	LEGAL/ADVERTISING	0	650	800	650	0	0	Public notices and advertising costs.
5100	BUILDING/CONTENTS	22,241	23,710	22,353	23,710	0	0	Department's share of vehicle and property insurance.
5200	ELECTRICITY	140,421	123,318	138,650	100,342	-22,976		Funds for electric cost for the treatment plant and 31 pump stations. Annual costs may vary due to flow levels. Solar Credit = \$39,367
5220	WATER	1,435	1,600	1,780	1,600	0	0	Funds for potable water cost from the Portland Water District.
5230	FUEL OIL	12,389	20,894	18,000	20,894	0	0	Funds for natural gas and standby generator fuel cost at the treatment plant and pumps stations.
5300	MACHINES/EQUIPMENT	22,338	16,000	15,600	16,000	0	0	Funds for outside vendor cost related to maintenance of plant and pump station equipment such as generator preventive maintenance, specialized maintenance tasks/calibrations.
5310	VEHICLE MAINTENANCE	1,652	3,280	2,650	3,280	0	0	Preventive and breakdown maintenance cost for 3 department pick-ups and sewer cleaning machine.
5320	SEWER LINE MAINTENANCE	7,081	17,000	3,000	17,000	0	0	Hired vendor cost for sewer cleaning, inspection, or repairs.
5330	RADIO/RADAR MAINTENANCE	0	470	0	470	0	0	Vendor maintenance and repair of portable radios, vehicle radios, telemetry communications network.
5400	LEGAL SERVICES	0	6,300	5,000	6,300	0	0	Funds for legal assistance related to ordinance, right of way, questions.
5410	COMPUTER SERVICES	7,817	9,400	8,400	43,832	34,432		Funds for a prorated share of maintenance agreements for software, internet service, IT support services and funds fiber optic link to network servers. IT allocation = \$34,432.
5430	AUDIT	2,113	3,000	3,000	3,000	0	0	Funds for the prorated share of the annual Town audit.
5450	SAFETY SERVICES	691	2,790	3,775	2,790	0	0	Funds vendor cost for mandated safety training.
5490	OTHER PROFESSIONAL SERVICES	10,795	10,495	10,800	14,495	4,000		Funds for outside engineering and technical assistance.
5491	LABORATORY MONITORING	3,142	6,040	6,500	6,040	0	0	Hired vendor cost for lab testing for discharge compliance monitoring.
5500	MAINTENANCE/BUILDINGS	1,272	22,800	7,050	22,800	0	0	Funds for vendor cost for fabrication, electrical work, and specialized maintenance work on department buildings.
5610	EQUIPMENT RENTAL	0	400	0	400	0	0	Funds for rental of small equipment.
5620	UNIFORM RENTALS	3,159	3,800	2,765	3,800	0	0	Rental cost and cleaning of work uniforms for the operations crew.
5900	BIOSOLIDS MANAGEMENT	121,213	85,500	90,000	85,500	0	0	Funds for contract disposal of plant sludge, annual variance due to fluctuations in volume of material for disposal.
5930	PUMP STATION ALARMS	7,539	2,800	4,200	2,800	0	0	Funds for cellular network cost of the telemetry system for pump stations.
5980	PUMP STATION MAINTENANCE	9,583	20,300	17,500	27,300	7,000		Funds for vendor cost for maintenance activities at pump stations, including emergency pumping, routine cleaning.
<b>COMMODITIES</b>								
6010	OFFICE SUPPLIES	1,569	700	650	700	0	0	Funds for miscellaneous office supplies, paper, pens, record keeping.
6015	COMPUTER FORMS/SUPPLIES	300	290	60	290	0	0	Computer and printer supplies

6100	MAINTENANCE MACHINES/EQUIPMENT	21,334	18,100	10,800	18,100	0	Funds for spare and replacement mechanical parts for treatment plant and pumping stations.
6110	VEHICLE MAINTENANCE	2,900	3,200	7,800	3,200	0	Funds for parts cost for the three department pick ups.
6130	MOTOR FUEL/LUBRICANTS	7,745	9,635	6,700	9,635	0	Fuel cost for the department vehicles, 3 pickup trucks, sewer cleaning machine, and small equipment.
6210	SALT / DEICING CHEMICALS	0	750	0	750	0	Winter chemical treatments for driveways
6300	SEWER MAINTENANCE SUPPLIES	6,418	3,300	2,000	3,300	0	Funds for supplies for the sewer system, grade rings and manhole covers, jetter parts, for example.
6320	PLANT MAINTENANCE SUPPLIES	0	200	0	200	0	Cleaning supplies for the treatment plant.
6330	PUMP MAINTENANCE SUPPLIES	0	150	0	150	0	Cleaning supplies for pump stations.
6340	LABORATORY SUPPLIES	11,101	12,000	12,000	12,000	0	Funds for lab materials, chemicals, and equipment.
6400	BUILDING/GROUNDS MAINT/SUPPLIES	4,708	6,750	8,900	6,750	0	Building and grounds maintenance supplies for pump station building and treatment plant, minor repairs, painting supplies, minor electrical work.
6450	CHEMICALS	42,389	55,500	46,000	55,500	0	Funds for disinfection, dechlorination, and sludge dewatering chemicals.
6520	SAFETY EQUIPMENT	2,231	3,440	5,000	3,440	0	Required portable and fixed safety equipment, gas detection, harnesses, confined space gear, personal protective gear.
6930	PUMPING STATION ALARMS	43	1,200	0	1,200	0	Funds for parts and supplies for the telemetry system at pump stations.
6980	PUMP STATION MAINT/SUPPLIES	12,232	19,300	11,050	19,300	0	Funds for spare and replacement parts for pump stations equipment.
<b>CAPITAL CONTRIBUTIONS</b>							
7010	TRANSFER TO CAPITAL	250,000	250,000	250,000	250,000	0	Annual budget contribution to department capital reserve fund.
7015	TRANSFER TO EQUIPMENT RESERVE	0	0	0	0	0	Combined Falmouth & Cumberland contribution to shared reserve fund.
7025	TRANSFER TO CAPITAL RESERVE	0	0	0	0	0	2016-17 transfer to reduce borrowing at Mill Creek and roundabout sewer work, FY 18 amount should have been <del>11,200</del>
7030	TRANSFER TO COMPUTER RESERVE	0	0	0	0	0	Inactive, now included within 7010 transfer
7550	IMPROVEMENTS BUILDINGS/GROUNDS	0	0	0	0	0	Inactive, now included within 7570 sewer rehabilitation
7570	SEWER REHABILITATION	0	50,000	50,000	50,000	0	This account funds annual routine rehab work in the sewer system serving only Falmouth
<b>DBBT</b>							
8050	IMPROVEMENTS	324,000	555,000	324,000	555,000	0	This account funds the repayment of the bond bank loans, 2008 plant upgrade and anticipated West Falmouth improvements in 2021
8200	BOND/NOTE INTEREST	64,168	166,342	64,200	166,342	0	This account funds the interest cost for loans, 2008 plant upgrade and anticipated West Falmouth improvements in 2021
8400	PWD ASSESSMENT	14,820	15,550	15,500	15,550	0	Funds for the department's cost for sewer billing and collection services by Portland Water District.

8450	PWD MILLCREEK LOAN SERVICE	295,887	292,383	290,200	292,383	0	Funds for the principal & interest cost for the 2016 loan for Mill Creek
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## WASTEWATER FY22 PROPOSED CAPITAL BUDGET

Cost center	FY 21-22	Notes
<b>Treatment Plant</b>		
Plant equipment replacement	\$15,000	General replacement of pumps and equipment at the treatment plant due to unexpected failure
Replace obsolete Programmable Logic Controllers (PLC).	\$100,000	PLCs are small industrial computers with modular components designed to automate Customized Control processes. PLCs are used in Wastewater plants to control motors, pumps, lights, fans circuit breakers and other machinery.
Rolling equipment storage / garage	\$125,000	Proposed garage / storage building for vehicles and equipment
<b>Total</b>	<b>\$240,000</b>	
<b>Johnson Road Pump Station</b>		
Johnson Road generator	\$40,000	This proposal would add a new in place generator at one of three pump stations that now require fairly dedicated service with the one high capacity portable unit that is available to serve 12 sites during widespread outages. Expect that the upgrade will provide needed flexibility for the portable unit and staffing during prolonged outages.
<b>Total</b>	<b>\$40,000</b>	
<b>Falmouth Only Sewers and Equipment</b>		
Infiltration reduction	\$50,000	Flow assessment, smoke testing, rehabilitation work to reduce peak flows.
Portable generator	\$60,000	Proposal provides funds to add a new portable generator
ROW clearing	\$10,000	Restore Webes Creek ROW
Computers and network	\$8,000	Contribution to Town computer/software/network replacement
Quickview Camera System	\$9,000	New sewer video camera system, shared cost with Public Works Department
<b>Total</b>	<b>\$137,000</b>	
<b>Falmouth Only Pump Stations</b>		
Misc. improvements	\$50,000	General replacement and rehab at any of 29 pump stations that solely serve Falmouth
Brown St, convert gen to natural gas	\$4,000	Proposed conversion of generator from propane to natural gas
Baltusrol convert gen to natural gas	\$4,000	Proposed conversion of generator from propane to natural gas
Birkdale convert gen to natural gas	\$4,000	Proposed conversion of generator from propane to natural gas
<b>Total</b>	<b>\$62,000</b>	
<b>Total FY2022 Spending</b>	<b>\$479,000</b>	







Plant equipment replacement	\$10,000	\$10,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$70,000	\$70,000	\$70,000	\$70,000	General replacement of pumps and equipment at the treatment plant due to unexpected failure
3rd Aeration tank, estimated \$2.9M	\$2,900,000								\$170,000	\$104,100	\$103,000	\$103,000	Recommended upgrade to the treatment plant to handle future flow patterns
Plant outfall extension	\$2,250,000												Dependent on regulatory requirements
Misc. other plant improvements	\$5 \$1 MM												Envisions needed improvements towards increased nutrient removal requirements or to address flow increases.
Vehicle and equipment storage garage	\$125,000			\$125,000									Proposal adds new garage at the treatment plant for vehicles, equipment, and pipe materials.
Pickup truck with plow	\$30,000	\$30,000								\$30,000			Proposal funds replacement of an existing 2006 3/4 ton 4x4 pickup truck and plow.

MILL CREEK PUMP STATION AND FENCE MAIN

	2016-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
Estab	\$796,381	\$796,382	\$796,382	\$797,383	\$797,384	\$797,385	\$798,386	\$798,387	\$798,388	\$798,389	\$798,390	\$798,391	\$798,392
Falmouth share	\$145,692	\$145,712	\$145,732	\$145,752	\$145,772	\$145,792	\$145,812	\$145,832	\$145,852	\$145,872	\$145,892	\$145,912	\$145,932
Comberland share	\$152,688	\$152,670	\$152,652	\$152,634	\$152,616	\$152,598	\$152,580	\$152,562	\$152,544	\$152,526	\$152,508	\$152,490	\$152,472
Item													
Mill Creek force main and pump station borrowing costs													
Mill Creek use of undesignated funds													
Mill Creek force main non eligible cost													
Principal forgiveness													
Estimated costs	\$4,760,000												
Fund													
MAHBB													
Fund balance													
Fund balance	\$86,751												
MAHBB	-\$120,000												

Mill, principal, interest, and fees  
 Mill Creek use of undesignated funds  
 Section of force main installed prior to base eligibility requirements finalized and determined infeasible  
 Loan principal forgiveness

	2016-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
Falmouth Share	\$144,935	\$143,712	\$142,490	\$141,267	\$140,044	\$138,821	\$137,598	\$136,375	\$135,152	\$133,929	\$132,706	\$131,483	\$130,260
Comberland Share	\$152,651	\$151,720	\$150,789	\$149,858	\$148,927	\$147,996	\$147,065	\$146,134	\$145,203	\$144,272	\$143,341	\$142,410	\$141,479
Non-Share Total	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Falmouth Share	\$145	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Comberland Share	\$145	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Studio 5000 LITE Edition Software	\$1,000												
SCADA 40 network upgrade	\$1,000												

PLC programming software  
 Upgrade SCADA communication to 4G service per cell carrier phone to discontinue 3G and 1X networks



FALMOUTH ONLY SEWERS AND EQUIPMENT

Item	Fund	Estimated costs	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
Totals			\$1,497,757	\$91,524	\$6,259	\$14,739	\$202,000	\$296,000	\$243,274	\$497,350	\$412,822	\$407,393	\$431,965	\$396,536	\$383,108	\$412,679	\$372,251	\$366,822
ROW clearing		\$10,000								\$10,000								
Engineering slope failure	400-2 8403-1	\$15,000		\$15,000	\$1,680	\$1,429												
Repair bank near Town Landing		\$75,000																
Infiltration reduction		\$50,000						\$50,000										
Misc. Line work		Varies TBD	\$66,973		\$4,160													
West Falmouth/ Sewer Mainline Plan	400 8412-1	\$100,000	\$34,976	\$57,524														
Care Street lining		\$125,000							\$75,274									
Clean and televising		\$13,500						\$23,500										
Rehab terminus manholes	400 8412-1	\$15,000				\$7,737	\$15,000											
Land purchase								\$160,000										
Falmouth Road force main		\$2,300,000																
Falmouth Road PS		\$400,000																
High School PS		\$17,000																
Woodland Dr. PS		\$66,000																
Improvements																		
Pinehurst Dr. PS		\$31,000																
Woodland Clubhouse PS		\$33,000																
Improvements																		
Middle Road Roundabout		\$175,000				\$175,000												
Project - Sewer																		
Replacement																		
Middle Rd. PS		\$355,000																
Interim pump		\$100,000																
Improvements, Lunt Rd		\$1,515,000																
Lunt Rd. PS		\$736,000																
Lunt Rd. force main		\$1,820,000																
Middle Rd. sewer, Woods																		
to Lunt																		
WF sewer extension		\$3,273,000																
projects, phase 1																		
Area 6, Route 100		\$2,897,000																
Area 5, Falmouth, Wier,		\$4,328,000																
Condition		\$1,721,000																
Area 3, Longwood,		\$3,587,000																
Middle, to Cumberland																		
Area 2, Falmouth Merrill																		
Area 2, Pleasant,																		
Area 2, Pleasant,																		
Leckwood																		
West Falmouth sewer																		
extension projects																		
Quikview camera system		\$9,000																
Pickup truck with plow		\$30,000	\$26,101															
Ameriback dump body		\$6,000	\$6,335															
Sander		\$4,500	\$3,810															
Crane truck body		\$15,000						\$15,000										
Portable generator		\$60,000							\$60,000									
Jet flushing machine		\$85,000																
Mobile portable generator		\$35,000							\$110,000									
Lift Crane		\$15,000						\$10,000										
Photocopier		\$4,000				\$4,000												
Computers and network	400 8412-1	\$8,000	\$2,200	\$8,000	\$411	\$437	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000



FALMOUTH ONLY PUMP STATIONS

	Totals	\$346,000 Estimated	\$170,000 2019-20	\$94,000 2020-21	\$62,000 2021-22	\$80,000 2022-23	\$54,000 2023-24	\$50,000 2024-25	\$50,000 2025-26	\$50,000 2026-27	\$50,000 2027-28	\$50,000 2028-29	\$50,000 2028-29
	Item	Fund											
MIDDLE ROAD	Control panel replacement												
	Standby Generator		\$15,000	\$40,000									
CLEARWATER DRIVE	Replace pump parts		\$10,000										
	Wet well rehab	406 8412-1	\$10,000										
	Piping parts and motor	406 8412-1	\$7,000										
	Frame Stock (Ferguson WaWies)	400-8412-1				\$30,000							
	Standby generator												
OLD MILL ROAD													
HEDGEROW DRIVE													
BAYSITE LN	Pave driveway		\$2,000	\$2,000									
	WW pipe and rail replacement	406 8412-1	\$5,000										
	Convert gen to NG		\$4,000	\$4,000									
LANDING WOODS LANE													
WAITES LANDING ROAD													
BROWN STREET	Replace pump parts		\$15,000										
	Convert gen to NG		\$4,000		\$4,000								
LUNT ROAD													
HANDY BOAT LANE	Replace pump parts		\$18,000										
	Piping and interior rehab		\$5,000										
UNDERWOOD ROAD													
	Control panel replacement	401-8412-1.2	\$17,000										
	Replace pump parts	406 8412-1	\$15,000										
WOODVILLE RD	Control panel replacement		\$15,000	\$15,000									
	Pave driveway		\$6,000										
PINEHURST LANE	Control panel replacement		\$15,000	\$15,000									
WOODLANDS DR													
WOODLANDS CLUB	Control panel replacement		\$15,000	\$15,000									
	Site repair		\$6,000										
LEIGHTON RD	Convert gen to NG		\$4,000										
FALMOUTH RD	Wet well repairs		\$6,000										
	Convert gen to NG	406 8412-1	\$4,000									\$4,000	
THORRHURST RD	Pump replacement and vfd's		\$18,000	\$18,000									
NORTHBROOK DRIVE	Control panel replacement		\$15,000	\$15,000									
BALTUSROL DR	Convert gen to NG		\$4,000										
	Wet well repairs		\$5,000	\$5,000									
INVERNESS DR													

