

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

**Waste Water 2024 Budget  
Projection for FY23 - FY31**

	Revenue Projection										Estimate 2030-31
	Estimate 2022-23	Estimate 2023-24	Estimate 2024-25	Estimate 2025-26	Estimate 2026-27	Estimate 2027-28	Estimate 2028-29	Estimate 2029-30	Estimate 2030-31		
Service Charges	\$2,314,594	\$2,419,792	\$2,529,772	\$2,952,876	\$3,087,084	\$3,603,399	\$3,767,174	\$3,938,392	\$4,117,392	\$4,117,392	
Connection Fees	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	
Miscellaneous Revenue	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	
Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Cumberland O & M	\$237,341	\$290,250	\$298,958	\$307,926	\$317,164	\$326,679	\$336,479	\$346,574	\$356,971	\$356,971	
Cumberland Reimbursement, Capital Spending	\$159,918	\$148,007	\$47,995	\$49,883	\$33,472	\$6,000	\$6,000	\$6,000	\$24,000	\$24,000	
Cumberland Reimbursement, plant upgrade	\$140,213	\$137,782	\$135,352	\$132,922	\$130,492	\$228,000	\$228,000	\$228,000	\$228,000	\$228,000	
Cumberland Reimbursement, Mill Creek	\$147,618	\$146,335	\$145,053	\$143,770	\$142,487	\$141,461	\$139,921	\$138,638	\$137,356	\$137,356	
Cumberland Reimbursement, Upper Mill Creek			\$55,000	\$268,800	\$266,560	\$264,320	\$262,080	\$259,840	\$257,600	\$257,600	
Cumberland Reimbursement, Johnson Rd. Pump Sta.			\$50,000	\$50,000	\$88,000	\$87,200	\$86,400	\$85,600	\$84,800	\$84,800	
<b>Projected Revenue after rate change</b>	<b>\$3,119,684</b>	<b>\$3,262,167</b>	<b>\$3,332,129</b>	<b>\$4,026,178</b>	<b>\$4,185,259</b>	<b>\$4,777,059</b>	<b>\$4,946,054</b>	<b>\$5,123,044</b>	<b>\$5,326,118</b>	<b>\$5,326,118</b>	
	<b>Expense projection</b>										
Expense (excluding Capital Transfer)	\$1,699,474	\$2,052,678	\$2,114,258	\$2,177,686	\$2,243,017	\$2,310,307	\$2,379,616	\$2,451,005	\$2,524,535	\$2,524,535	
Plus: Capital Spending	\$957,000	\$583,000	\$318,000	\$361,000	\$128,000	\$313,000	\$128,000	\$128,000	\$128,000	\$188,000	
Plus: Debt											
Plant Upgrade	\$368,981	\$362,585	\$356,189	\$349,794	\$343,399	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	
Mill Creek Debt Service	\$287,585	\$285,086	\$282,587	\$280,088	\$277,588	\$275,590	\$272,590	\$270,091	\$267,592	\$267,592	
West Falmouth Debt Service	\$0	\$409,500	\$405,275	\$401,050	\$396,825	\$392,600	\$388,375	\$384,150	\$379,925	\$379,925	
Lunt Road Debt Service	\$0	\$0	\$0	\$0	\$480,000	\$476,000	\$472,000	\$468,000	\$464,000	\$464,000	
Upper Mill Creek Debt Service			\$98,000	\$480,000	\$476,000	\$472,000	\$468,000	\$464,000	\$460,000	\$460,000	
Johnson Road Pump Station Upgrade				\$125,000	\$220,000	\$218,000	\$216,000	\$214,000	\$212,000	\$212,000	
<b>Total Expenses</b>	<b>\$3,313,040</b>	<b>\$3,692,849</b>	<b>\$3,574,310</b>	<b>\$4,174,618</b>	<b>\$4,564,829</b>	<b>\$5,057,497</b>	<b>\$4,924,581</b>	<b>\$4,979,246</b>	<b>\$5,096,052</b>	<b>\$5,096,052</b>	
<b>Total Enterprise Fund Change</b>	<b>-\$193,356</b>	<b>-\$430,682</b>	<b>-\$242,181</b>	<b>-\$148,440</b>	<b>-\$379,570</b>	<b>-\$280,438</b>	<b>\$21,473</b>	<b>\$143,798</b>	<b>\$230,066</b>	<b>\$230,066</b>	
CIP Find Balance	\$3,726,887	\$3,821,205	\$3,579,024	\$3,430,584	\$3,051,014	\$2,770,576	\$2,792,049	\$2,935,847	\$3,165,913	\$3,165,913	
Operating Fund Balance	\$750,000	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	
<b>Total Enterprise Fund Balance</b>	<b>\$4,476,887</b>	<b>\$4,046,205</b>	<b>\$3,804,024</b>	<b>\$3,655,584</b>	<b>\$3,276,014</b>	<b>\$2,995,576</b>	<b>\$3,017,049</b>	<b>\$3,160,847</b>	<b>\$3,390,913</b>	<b>\$3,390,913</b>	
<b>Monthly Rate</b>	<b>\$48.28</b>	<b>\$49.73</b>	<b>\$51.22</b>	<b>\$58.91</b>	<b>\$60.67</b>	<b>\$69.77</b>	<b>\$71.87</b>	<b>\$74.02</b>	<b>\$76.24</b>	<b>\$76.24</b>	
<b>Rate Increase %</b>	<b>3.0%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>15.0%</b>	<b>3.0%</b>	<b>15.0%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>3.0%</b>	

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

Account Number	Account Name	Actual 2020-21	Actual 2021-22	Budget 2022-23	Proposed Budget 2023-24	FY24 Bud vs FY23 Bud	Notes
201	PUMP STATIONS AND LINES	971,496	1,109,846	1,062,794	1,113,197	50,403	Falmouth users 100 %
201-1	ADMINISTRATION	577,892	592,624	572,407	588,765	16,358	Assume WF debt will not start until FY25
<b>Combined Falmouth / Cumberland cost centers, shared based on flow contributions</b>							
202	TREATMENT PLANT	436,424	497,563	496,092	588,972	92,880	Falmouth users approx. 77%
202-1	PUMP STATIONS	41,701	70,551	65,363	85,325	19,962	Falmouth users approx. 57 %
202-2	SLUDGE HANDLING	147,930	165,361	169,797	311,576	141,779	Falmouth users approx. 77%
202-3	ADMINISTRATION	126,733	170,349	245,812	268,678	22,866	Falmouth users approx. 77%
<b>DEPARTMENT TOTAL</b>		<b>2,302,176</b>	<b>2,606,294</b>	<b>2,612,265</b>	<b>2,956,512</b>	<b>344,247</b>	<b>13.2%</b>
<b>LABOR &amp; BENEFITS</b>							
4010	FULL-TIME SALARIES	592,437	662,521	698,921	785,680	86,759	Funding for labor portion of the activities that serve the combined Falmouth / Cumberland system.
4030	OVERTIME	34,206	27,094	33,320	62,600	29,280	Funding for overtime labor weekends and off hours for non - exempt employees.
4050	HEALTH INSURANCE	109,196	122,371	130,090	144,763	14,673	Department's share of employer's health insurance premiums.
4060	RETIREMENT	60,558	65,732	65,215	73,705	8,490	Department's share of employer retirement contributions. FY22 included salary for unfilled position but not retirement
4061	RETIREMENT HEALTH	7,000	6,833	6,874	7,796	922	Department share of health saving plan
4070	SOCIAL SECURITY	52,834	50,870	56,015	64,395	8,380	Department's share of employer Social Security.
4080	GROUP INSURANCE	59	64	100	100	0	Employer's share of the group life insurance.
4090	INCOME PROTECTION	2,780	2,573	2,500	2,500	0	Employers share of the income protection insurance cost.
4100	WORKER'S COMPENSATION	9,374	9,736	12,923	12,923	0	Funding for Worker's Compensation insurance based on the department's specific payroll, based on manual rate and the Town's experience rate.
4110	UNEMPLOYMENT COMPENSATION	0	0	800	800	0	Generally inactive, represents roughly 10% of Town unemployment charges
<b>SERVICES</b>							
5010	POSTAGE	554	678	730	730	0	Postage and maintenance costs on the town hall mail equipment.
5020	TELEPHONE	1,481	2,226	2,165	2,165	0	Department's prorated share of town wide telephone expenses.
5030	TRANSPORTATION	0	0	250	250	0	Employer's cost reimbursement for use of personal vehicle.
5040	EDUCATION/MEETINGS	1,356	2,524	7,415	6,315	-1,100	Cost for meetings and seminars, primarily required training to maintain employee certifications.
5070	MAPS/BLUEPRINTS	26	0	200	200	0	Funds for plan copies and updating tax maps.
5080	LEGAL/ADVERTISING	460	0	4,450	4,450	0	Public notices and advertising costs.
5100	BUILDING/CONTENTS	22,353	24,635	23,710	26,500	2,790	Department's share of vehicle and property insurance.
5200	ELECTRICITY	139,551	151,278	101,715	149,254	47,539	Funds for electric cost for the treatment plant and 31 pump stations. Annual costs may vary due to flow levels. Solar Credit = \$40,300

**Line Item Budget Request Justification**



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

Account Number	Account Name	Actual 2020-21	Actual 2021-22	Budget 2022-23	Proposed Budget 2023-24	FY24 Bud vs FY23 Bud	Notes
5220	WATER	1,640	1,426	1,695	1,850	155	Funds for potable water cost from the Portland Water District.
5230	FUEL OIL	10,889	24,746	22,088	26,000	3,912	Funds for natural gas and standby generator fuel cost at the treatment plant and pumps stations.
5300	MACHINES/EQUIPMENT	19,167	21,762	16,250	22,455	6,205	Funds for outside vendor cost related to maintenance of plant and pump station equipment such as generator preventive maintenance, specialized maintenance tasks/calibrations. Increase due to generator service contract.
5310	VEHICLE MAINTENANCE	5,035	2,180	5,830	5,830	0	Preventive and breakdown maintenance cost for 4 department pick-ups and sewer cleaning machine.
5320	SEWER LINE MAINTENANCE	870	71,064	17,000	17,000	0	Hired vendor cost for sewer cleaning, inspection, or repairs.
5330	RADIO/RADAR MAINTENANCE	0	0	470	470	0	Vendor maintenance and repair of portable radios, vehicle radios, telemetry communications network.
5400	LEGAL SERVICES	22,990	17,837	14,700	14,700	0	Funds for legal assistance related to ordinance, right of way, questions. Research easement status this year.
5410	COMPUTER SERVICES	8,618	45,779	59,097	58,894	-203	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 = \$48,894. Includes costs for new Cartegraph system.
5430	AUDIT	832	2,051	4,500	4,500	0	Funds for the prorated share of the annual Town audit.
5450	SAFETY SERVICES	2,646	1,709	2,790	2,790	0	Funds vendor cost for mandated safety training.
5490	OTHER PROFESSIONAL SERVICES	10,475	9,985	28,220	29,420	1,200	Funds for outside engineering and technical assistance. Including services for Cartegraph/asset management training
5491	LABORATORY MONITORING	6,768	9,838	20,715	20,715	0	Hired vendor cost for lab testing for discharge compliance monitoring. 5th year of Permit
5500	MAINTENANCE/BUILDINGS	8,417	29,686	22,800	8,800	-14,000	Funds for vendor cost for fabrication, electrical work, and specialized maintenance work on department buildings. Decrease over last year due to digester cleaning performed
5610	EQUIPMENT RENTAL	69	270	1,000	3,000	2,000	Funds for rental of small equipment.
5620	UNIFORM RENTALS	2,924	4,138	4,600	4,600	0	Rental cost and cleaning of work uniforms for the operations crew.
5900	BIOSOLIDS MANAGEMENT	94,790	107,636	93,500	224,637	131,137	Funds for contract disposal of plant sludge, annual variance due to fluctuations in volume of material for disposal. Includes higher costs for PFAS disposal and landfill restrictions
5930	PUMP STATION ALARMS	5,336	5,481	6,400	6,600	200	Funds for cellular network cost of the telemetry system for pump stations. Increases due to added data transmission from pump stations
5980	PUMP STATION MAINTENANCE	24,073	17,988	27,300	27,300	0	Funds for vendor cost for maintenance activities at pump stations, including emergency pumping, routine cleaning.
<b>COMMODITIES</b>							
6010	OFFICE SUPPLIES	610	3,757	700	700	0	Funds for miscellaneous office supplies, paper, pens, record keeping.
6015	COMPUTER FORMS/SUPPLIES	25	330	290	290	0	Computer and printer supplies
6100	MAINTENANCE MACHINES/EQUIPMENT	8,000	24,164	18,100	20,500	2,400	Funds for spare and replacement mechanical parts for treatment plant.
6110	VEHICLE MAINTENANCE	6,427	4,971	3,200	3,200	0	Funds for parts cost for the three department pick ups.
6130	MOTOR FUEL/LUBRICANTS	7,601	7,409	9,885	14,000	4,115	Fuel cost for the department vehicles, 3 pickup trucks, sewer cleaning machine, and small equipment.
6210	SALT / DEICING CHEMICALS	0	0	750	500	-250	Winter chemical treatments for driveways

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

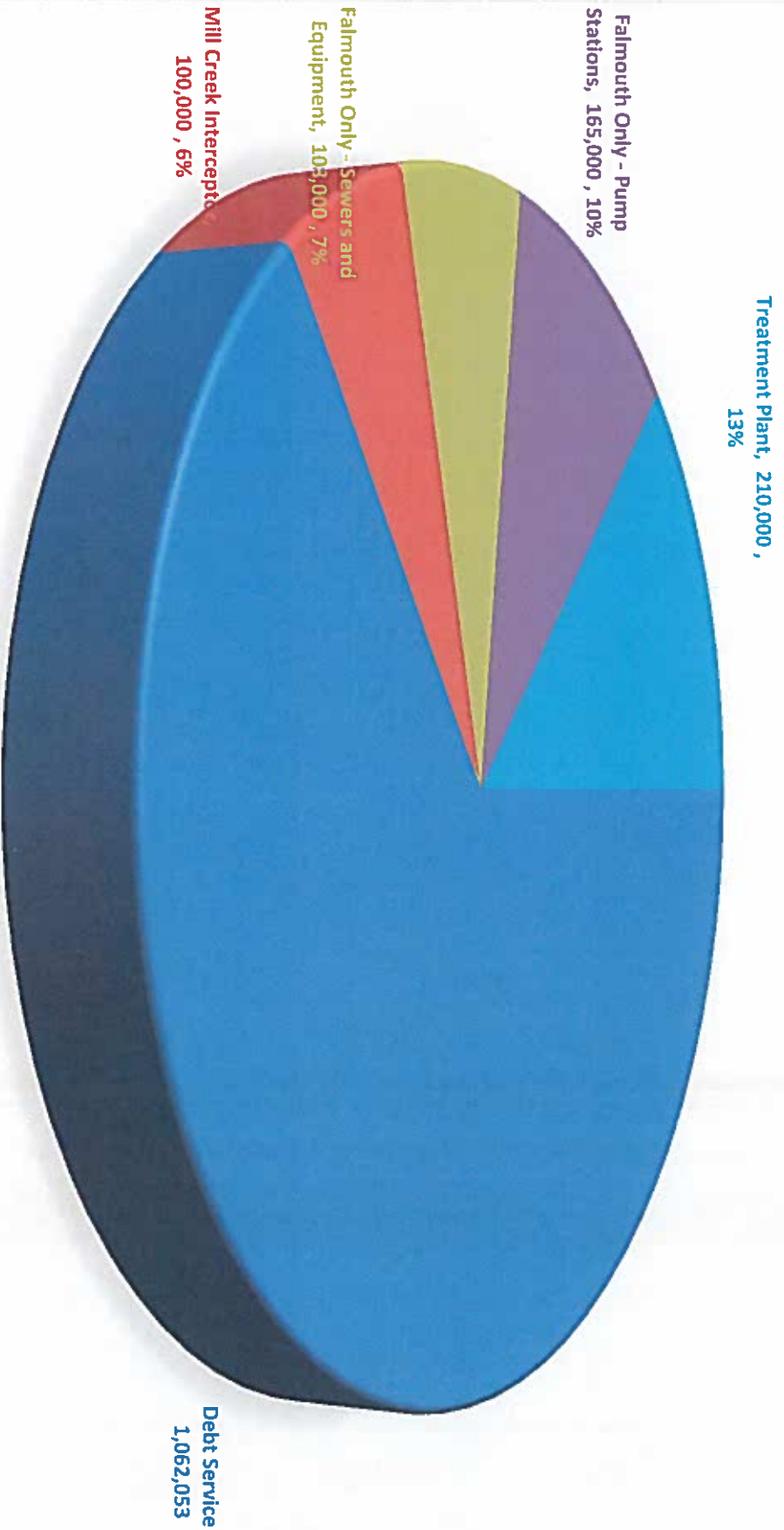
Account Number	Account Name	Actual 2020-21	Actual 2021-22	Budget 2022-23	Proposed Budget 2023-24	FY24 Bud vs FY23 Bud	Notes
6300	SEWER MAINTENANCE SUPPLIES	1,875	12,384	3,300	3,300	0	Funds for supplies for the sewer system, grade rings and manhole covers, jetter parts, for example.
6320	PLANT MAINTENANCE SUPPLIES	70	208	200	100	-100	Cleaning supplies for the treatment plant.
6330	PUMP MAINTENANCE SUPPLIES	59	0	150	150	0	Cleaning supplies for pump stations.
6340	LABORATORY SUPPLIES	11,191	12,976	12,000	12,000	0	Funds for lab materials, chemicals, and equipment.
6400	BUILDING/GROUNDS MAINT/SUPPLIES	9,125	7,141	6,750	6,750	0	Building and grounds maintenance supplies for pump station building and treatment plant, minor repairs, painting supplies, minor electrical work.
6450	CHEMICALS	42,064	50,611	58,000	74,000	16,000	Funds for disinfection, dechlorination, and sludge dewatering chemicals. Increases in costs to disinfectant, dechlorination and polymer.
6520	SAFETY EQUIPMENT	2,650	3,674	3,440	3,440	0	Required portable and fixed safety equipment, gas detection, harnesses, confined space gear, personal protective gear.
6930	PUMPING STATION ALARMS	0	0	1,200	1,200	0	Funds for parts and supplies for the telemetry system at pump stations.
6980	PUMP STATION MAINT/SUPPLIES	14,259	20,604	19,300	22,000	2,700	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 inactive, now included within 7010 transfer
7030	TRANSFER TO COMPUTER RESERVE	0	0	0	0	0	Inactive, now included within 7570 sewer rehabilitation
7550	IMPROVEMENTS BUILDINGS/GROUNDS	0	0	0	0	0	This account funds the repayment of the bond bank loan for the 2008 plant upgrade. Anticipating West Falmouth improvements starting in FY 24.
7570	SEWER REHABILITATION	0	0	50,000	50,000	0	This account funds annual routine rehab work in the sewer system serving only Falmouth
<b>DEBT</b>							
8050	IMPROVEMENTS	324,000	324,000	324,000	324,000	0	This account funds the repayment of the bond bank loan for the 2008 plant upgrade. Anticipating West Falmouth improvements starting in FY 24.
8200	BOND/NOTE INTEREST	57,773	51,377	44,980	38,585	-6,395	This account funds the interest cost for the 2008 plant upgrade loan. Anticipating West Falmouth improvements in FY 24.
8400	PWD ASSESSMENT	15,412	17,384	15,861	15,861	0	Funds for the department's cost for sewer billing and collection services by Portland Water District.
8450	PWD MILLCREEK LOAN SERVICE	291,271	312,593	293,811	291,249	-2,562	Funds for the principal & interest cost for the 2016 loan for Mill Creek

## WASTEWATER FY24 PROPOSED CAPITAL BUDGET

Falmouth Total FY24 \$ 1,237,487  
 Cumberland Total FY24 \$ 407,566  
 Total FY24 \$ 1,645,053

Cost center	FY 2024	Fund	Notes
<b>Treatment Plant</b>			
Plant equipment replacement - General	\$15,000		General replacement of pumps and equipment at the treatment plant due to unexpected failure
Plant equipment replacement - Dedicated	\$45,000		Replacement of polymer and sludge conveyance equipment
Plant Capacity Study	\$100,000		Update capacity study at the WWTF considering flows and new regulation
Rolling equipment storage / garage	\$50,000		Proposed garage / storage building for vehicles and equipment
<b>Total</b>	<b>\$210,000</b>		
<b>Johnson Road Pump Station</b>			
<b>Mill Creek Interceptor Sewer</b>			
Final Design of New Pump Station	\$100,000		Proposal initiates final design of new pump station at the head of Mill Creek to replace the Mill Creek interceptor
<b>Total</b>	<b>\$100,000</b>		
<b>Falmouth Only Sewers and Equipment</b>			
Infiltration reduction	\$50,000		Flow assessment, smoke testing, rehabilitation work to reduce peak flows.
Greenway / Middle Road I/I Study	\$50,000		Study areas of known high I/I
Computers and network	\$8,000		Contribution to Town computer/software/network replacement
<b>Total</b>	<b>\$108,000</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
Clearwater PS Wet Well Rehab	\$50,000		Interim upgrade to convey additional flows once the new WF project is online
Building Improvements	\$25,000		Roofing, siding and trim at Baysite and Clearwater
Electrical Improvements	\$40,000		New Panels/locations for improved access at Handy Boat, Underwood, Clubhouse, Balturso
<b>Total</b>	<b>\$165,000</b>		
<b>Debt Service</b>			
WWTF Upgrade - Falmouth Share	\$224,803		62%
WWTF Upgrade - Cumberland Share	\$137,782		38%
Mill Creek PS - Falmouth Share	\$139,185		48%
Mill Creek PS - Cumberland Share	\$150,783		52%
West Falmouth Project - Falmouth Only	\$409,500		
<b>Total</b>	<b>\$1,062,053</b>		
<b>Total FY24 Spending</b>	<b>\$1,645,053</b>		

# WASTEWATER CAPITAL FY24





**TOWN OF FALMOUTH WASTEWATER GIP PLAN (FY2023 - FY2032)**

Asset	Allocation to		Budget year											
	Falmouth	Cumberland	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	
<b>Treatment plant</b>														
Falmouth share	70.0%		\$615,377	\$616,981	\$572,585	\$421,189	\$422,794	\$363,398	\$620,000	\$620,000	\$620,000	\$620,000	\$620,000	\$620,000
Cumberland share		30.0%	\$400,734	\$402,368	\$371,803	\$266,337	\$267,972	\$226,907	\$434,000	\$434,000	\$434,000	\$434,000	\$434,000	\$434,000
<b>Mill Creek pump station and force main</b>														
Falmouth share *	56.3%		\$289,884	\$287,385	\$289,968	\$287,406	\$284,844	\$282,282	\$279,720	\$277,158	\$274,596	\$272,034	\$269,472	\$266,910
Cumberland share *		43.7%	\$141,276	\$140,058	\$139,185	\$137,955	\$136,725	\$135,495	\$134,266	\$133,036	\$131,806	\$130,576	\$129,347	\$128,117
* Allocations vary from contractual percentages due to final cost share for repayment of bonds funding the 2017 Mill Creek replacement														
<b>Johnson Road pump station</b>														
Falmouth share	60.0%		\$40,000	\$0	\$0	\$0	\$125,000	\$220,000	\$220,000	\$220,000	\$220,000	\$220,000	\$220,000	\$220,000
Cumberland share		40.0%	\$24,000	\$0	\$0	\$0	\$75,000	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000
<b>Route One Interceptor sewer, North of Johnson Road</b>														
Falmouth share	77.3%		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland share		22.7%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Gravity sewers and force main, south of Johnson to Mill Creek Interceptor</b>														
Falmouth share	60.0%		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland share		40.0%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Route 88 Interceptor sewer</b>														
Falmouth share	36.0%		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland share		64.0%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Mill Creek Interceptor sewer</b>														
Falmouth share	44.0%		\$0	\$100,000	\$100,000	\$0	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000
Cumberland share		56.0%	\$0	\$44,000	\$44,000	\$0	\$211,200	\$211,200	\$211,200	\$211,200	\$211,200	\$211,200	\$211,200	\$211,200
<b>Falmouth only sewers and equipment</b>														
Falmouth share	100.0%		\$497,250	\$296,000	\$517,500	\$463,275	\$459,050	\$454,825	\$635,600	\$446,375	\$442,150	\$437,925	\$437,925	\$437,925
<b>Falmouth only pump stations</b>														
Falmouth share	100.0%		\$62,000	\$313,000	\$165,000	\$195,000	\$230,000	\$530,000	\$530,000	\$530,000	\$530,000	\$530,000	\$530,000	\$530,000
<b>Excluding Debt Service</b>														
Falmouth total by year			\$311,720	\$797,082	\$434,993	\$270,005	\$311,117	\$94,528	\$307,000	\$122,000	\$122,000	\$122,000	\$122,000	\$122,000
Cumberland total by year			\$88,000	\$159,918	\$148,007	\$47,995	\$49,883	\$33,472	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
<b>Total by year</b>			\$399,720	\$957,000	\$583,000	\$318,000	\$361,000	\$128,000	\$313,000	\$128,000	\$128,000	\$128,000	\$128,000	\$128,000



Item	Fund	Estimated costs	2021-22	2022-23	2022-24	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32
Plant Upgrade 2007-08		\$8,140,000	\$375,377	\$164,981	\$362,585	\$155,189	\$442,794	\$349,794	\$343,398					
SCADA software, computer, operating system, and network storage and backup	040-2491	\$50,000						\$50,000						
Proposed provides for data acquisition software and hardware upgrade, and data backup archive system, for supervisory control and telemetry systems.														
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.														
Proposed funds adding required engineered roof mounted fall restraint / prevention system to flat roof at plant and abpghill.	040-2491	\$30,000												
Proposed funds replacing lab space, replacing cabinets, counter-top and fume hood, HVAC improvements, demo strum and extend outside brick wall.	040-2491	\$30,000												
Proposed funds boiler burner replacement and chimney liners to convert to natural gas.	040-2491	\$25,000												
Proposed funds replacing (aged) central AC unit in main electrical building.	040-2491	\$4,500												
Proposed replaces 75 HP blower motor.	040-2491	\$4,000												
Proposed funds installation of new gas boiler in the chemical building due to underground heating line failure.	040-2491	\$15,000												
Proposed provides funds to repair underground heating lines to the headworks building prior to 2016 winter months.		\$18,000												
Security improvements														
Proposed funds security additions at the treatment plant														
ISCO Sampler (2)		\$7,000												
Proposed funds replacement of two refrigerated samplers used to composite plant monitoring samples mandated by State imposed licensing requirements.														
This proposal will remove grit and debris from the aeration tanks to increase active volume and impact air diffusers.														
Existing O <sub>2</sub> probes are approaching end of useful life. This proposal will replace the existing with the newest style that will improve working space by reducing odors and making more usable area.														
Clean aeration tanks		\$40,000												
Replace Meth D, Probers		\$18,000												
Existing O <sub>2</sub> probes are approaching end of useful life. This proposal will replace the existing with the newest style that will improve working space by reducing odors and making more usable area.														
Headworks Gritting and Old Charmin Hill		\$20,000												
Headworks Gas Detection System		\$10,000												
Replace old/proxy functioning gas detection system for operational safety.														
Energy Recovery Unit Replacement - Admin Building		\$20,000												
This proposal will seek an audit / study / design of the energy usage at the WWT and make recommendations for improvements.														
Asset Management Program		\$50,000												
Heat / Energy Study														
Replace CL-17s		\$15,000												
Replace Alarm software														
Approach likely purchase new rotating assembly as on the shaft spare. Combine with other dewatering equipment replacement shown separately.														
Centrifuge addition estimated \$300K		\$300,000												
Screw conveyor		\$20,000												
Proposed provides funding for screw conveyor replacement as part of the centrifuge upgrade.														
Polymind		\$10,000												
Proposed provides funding for auxiliary polymer dosing system as part of the centrifuge upgrade.														
Sludge pump rebuild														
Proposed funds parts required to rebuild two sludge pumps in the dewatering system. (OPERATING BUDGET)														
Replace sludge grinder		\$20,000												
Replace mono grinder		\$20,000												
Centrifuge rebuild		\$50,000												
Proposed provides funds to rebuild the 1999 dewatering centrifuge.														
Included screw conveyor		\$5,600												
BOD incubator		\$5,600												
Proposed replaces 1999 dewatering screw conveyor														
General replacement of pumps and equipment at the treatment plant due to unexpected failure		\$20,000												
Proposed funds replacement of 2010 BOD incubator														
Plant equipment replacement		\$10,000												
Proposed provides upgrade to the treatment plant to handle future flow patterns (it can delay to 28 then rate plant debt fin?)														
Plant outlet extension		\$2,250,000												
Dependent on regulatory requirements														
WWT Capacity & PFAS Study		\$100,000												
WWT Upgrade - Nitrogen removal, 3rd tank, PFAS		\$100,000,000												
WWT outlet extension		\$2,250,000												
Misc. other plant improvements		\$-5.1 MM												
Vehicle and equipment storage garage		\$270,000												
Proposed adds new garage at the treatment plant for vehicles, equipment, and pipe materials.														
Adoption Tank Rehab		\$50,000												
Proposed funds replacement of an existing 2009 3/4 ton 4x6 pickup truck and blow. Shared cost with PS														

TREATMENT PLANT PROJECTS

Total \$815,377 \$816,961 \$872,585 \$421,189 \$422,794 \$363,396 \$420,000 \$420,000 \$420,000 \$420,000 \$420,000 \$420,000 \$420,000 \$420,000



**JOHNSON ROAD PUMP STATION**

Item	Fund	Estimated costs	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	Description
			\$0	\$40,000	\$0	\$0	\$0	\$0	\$115,000	\$220,000	\$220,000	\$220,000	\$220,000	\$220,000	\$220,000	
Panel replacement - Johnson Road		\$30,000														This improvement replaces one of five existing control panels that have been prone to intermittent wiring problems. This style panel has resulted in numerous call ins due to intermittent problems with the friction type connectors used to connect the various electrical components.
Generator - Johnson Road		\$30,000		\$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 manpower during prolonged outages.
Design Johnson rd upgrade								\$125,000								
Upgrade capacity Johnson Road (\$3.5M)	TIF reimbursement of Falmouth share	\$3,500,000							220000	220000	220000	220000	220000	220000	220000	Timing dependent on growth in Cumberland and Falmouth along Route One north of Buckram Road. This proposal includes new pump station (assume \$3.5M for 20 years at 2.5%)
SCADA 4G network upgrade		\$1,000														Upgrade SCADA communication to 4G service per cell carrier plans to discontinue 3G and 1X networks

**FALMOUTH ONLY SEWERS AND EQUIPMENT**

Totals	Item	Fund	Estimated costs	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32
\$10,000	RCW clearing		\$10,000											
	Engineering slope failure	400-2-8403-1	\$15,000											
	Survey bank near town		\$75,000											
	Manhole Reinforcement Shoreline Drive		\$150,000											
	Infiltration reduction		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
	Greenway/Middle Road		\$50,000											
	M/F Line work													
	West Falmouth Sewer	400 8412-1	\$100,000											
	Carol Street lining		\$125,000											
	Clean and reverse Shoreline Interceptor		\$33,500		\$30,000									
	Rehab terminus manholes	400 8412-1	\$15,000											
	Land purchase		\$2,300,000											
	Falmouth Road Force		\$2,300,000											
	Falmouth Road Force		\$2,300,000											
	High School #5		\$17,000											
	Woodland Dr #5		\$66,000											
	Finehurst Dr #5		\$31,000											
	Woodland Clubhouse #5		\$33,000											
	Middle Road Roundabout		\$175,000											
	Project - Sewer		\$175,000											
	Middle Rd #5		\$355,000											
	Middle Rd sewer, Wood		\$1,820,000											
	WF sewer extension		\$3,273,000											
	Area 5, Falmouth, Wm.		\$2,897,000											
	Area 3, Longwood,		\$4,228,000											
	Middle Rd Falmouth		\$1,721,000											
	Area 2, Falmouth		\$1,587,000											
	West Falmouth sewer		\$9,000											
	Quickview camera system		\$9,000											
	Pickup truck with blow		\$30,000											
	Ameritech dump body		\$6,000											
	Sander		\$4,500											
	Portable generator		\$15,000											
	Crane truck body		\$15,000											
	Portable generator		\$60,000											
	Let Pushing machine		\$85,000											
	Mobile portable generator		\$35,000											
	U/I Crane		\$15,000											
	Photocopier		\$4,000											
	Computers and network	400 8412-1	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000
	Truck, one ton chassis		\$30,000											



		Totals													
Item	Fund	Estimated costs	2014-15	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	
Manhole repair, Mill Creek	201-7550	\$30,000	\$17,306												Repair displaced manholes in Mill Creek ROW
Feasibility study of abandoning cross country line in Mill Creek		\$15,000													Proposal funds a determination of the practicality of eliminating inaccessible section of gravity sewer along Mill Creek. Updated to include long term solutions study (Actual W.F. cost is \$48K)
Final Design of Upper Mill Creek Pump Station		\$200,000			\$100,000	\$100,000									
New Route One pump station		TBD, \$7.5M estimated (assumes \$7.5M, 2.5% interest for 20 years)						\$-180,000	\$480,000	\$-180,000	\$-180,000	\$480,000	\$-180,000	\$-180,000	Proposal funds addition of new pump station at head of Mill Creek Interceptor, allows abandonment of Mill Creek Interceptor, dependent on growth and development scenarios or risk associated with any failure of the cross country run of the sewer along Mill Creek. Discussion should be part of Route One North development plans. Fall 2021 - applied for Cumberland County ARPA funds

Item	Fund	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	Total
Control panel replacement		\$15,000													\$15,000
Control panel replacement		\$15,000													\$15,000
Control panel replacement		\$15,000													\$15,000
Wet well top w. hatch		\$18,000													\$18,000
Pump replacement		\$18,000													\$18,000
Wet well repairs	406 8412-1	\$6,000													\$6,000
New Generator															\$50,000
Force Main relocation (HDD)															\$10,000
Electrical															\$2,000
PLC Programming															\$6,000
Site repair															\$5,000
Control panel replacement		\$15,000													\$15,000
Control panel replacement	406 8412-1	\$2,000													\$2,000
PLC Programming															\$15,000
Control panel replacement	406 8412-1	\$15,000													\$15,000
Control panel replacement		\$15,000													\$15,000
Replace valve pit top		\$5,000													\$5,000
Free driveway		\$5,000													\$5,000
Control panel replacement		\$15,000													\$15,000
Control panel replacement	406 8412-1	\$10,000													\$10,000
Replace pump parts		\$15,000													\$15,000
Control panel replacement	401-8412-1,2	\$17,000													\$17,000
Electrical		\$10,000													\$10,000
Cut in force main valve		\$7,000													\$7,000
Replace can structure		\$5,000													\$5,000
Light and interior rehab		\$18,000													\$18,000
Replace pump parts		\$18,000													\$18,000
Interior Upgrade - new impellers/motors		\$65,000													\$65,000
PS Upgrade - \$15M for 20 Yrs @ 2.5%		\$100,000													\$100,000
Upgrade Design															\$480,000
Design / Rehab can															\$480,000
Change impellers		\$45,000													\$45,000
New Generator		\$4,000													\$4,000
Convert ten to NG	406 8412-1	\$15,000													\$15,000
Replace pump parts		\$15,000													\$15,000
Control panel replacement		\$15,000													\$15,000
Wet well top w. hatch		\$15,000													\$15,000
Control panel replacement		\$15,000													\$15,000
Control panel replacement	406 8412-1	\$10,000													\$10,000
Generator building rehab ( siding/vtm)		\$4,000													\$4,000
Convert ten to NG	406 8412-1	\$5,000													\$5,000
WV pipe and rehab replacement		\$4,000													\$4,000
Free driveway		\$2,000													\$2,000
Control panel replacement		\$15,000													\$15,000
Rehab can structure		\$15,000													\$15,000
Pump motor replacements		\$7,000													\$7,000
Generator building - roof/vtm		\$40,000													\$40,000
Cut in force main valves		\$50,000													\$50,000
Standby generator	400-8412-1	\$7,000													\$7,000
Frame Stand ( Ferguson W/WH)		\$50,000													\$50,000
Pipe parts and motor	406 8412-1	\$15,000													\$15,000
Wet well rehab		\$5,000													\$5,000
Replace pump parts		\$40,000													\$40,000
Valve Pit Cover		\$2,000													\$2,000
Standby Generator		\$15,000													\$15,000
PLC Programming		\$15,000													\$15,000
Control panel replacement		\$15,000													\$15,000
INDOLE ROAD		\$174,000	\$165,000	\$94,000	\$62,000	\$118,000	\$195,000	\$230,000	\$330,000	\$330,000	\$530,000	\$530,000	\$530,000	\$530,000	\$530,000
FALMOUTH ONLY PUMP STATIONS		\$174,000	\$165,000	\$94,000	\$62,000	\$118,000	\$195,000	\$230,000	\$330,000	\$330,000	\$530,000	\$530,000	\$530,000	\$530,000	\$530,000

