

DPW WATER FILTRATION	FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC	FY2025 FIN COM REC
<i>Salaries</i>										
5111 Regular	901,670	841,061	928,455	836,332	831,804	817,689	1,000,887	1,018,768	1,018,768	
5120 Temporary Part-Time Salaries	-	-	-	-	-	-	-	-	-	
5130 Overtime	76,000	64,063	76,000	53,141	94,000	89,100	78,000	81,900	81,900	
5135 Uniform Allowance	6,750	4,320	6,480	6,480	5,940	4,386	6,480	5,400	5,400	
5150 Car Allowance	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	
5160 Sick Leave Buy Back	8,988	-	13,559	579	3,209	-	3,334	23,456	23,456	
5163 Holiday Pay	23,150	20,477	25,650	23,459	26,179	25,708	25,110	25,110	25,110	
5180 All Other Salaries	1,700	-	2,000	-	3,600	2,902	2,000	2,500	2,500	
Total Salaries	1,025,458	937,121	1,059,344	927,191	971,932	946,984	1,123,011	1,164,333	1,164,333	
<i>Operating</i>										
5210 Energy Utilities	406,486	396,286	435,148	404,859	471,745	441,736	435,000	435,000	435,000	
5231 Water Purchase	12,314	9,839	13,684	8,325	12,857	6,935	9,000	9,000	9,000	
5240 Repairs and Maintenance	192,933	156,326	194,710	133,230	190,876	176,725	121,931	140,495	140,495	
5270 Leases and Contract	73,933	66,823	77,892	65,370	36,712	35,005	80,500	45,500	45,500	
5310 Professional Services	-	-	-	-	-	-	-	10,000	10,000	
5340 Communications	19,928	9,379	20,518	20,312	15,966	13,358	11,100	7,700	7,700	
5420 Office Supplies	2,742	2,742	1,509	1,062	600	521	2,600	2,600	2,600	
5423 All Other Supplies and Exp.	91,373	87,964	86,134	69,169	83,842	77,065	32,675	67,800	67,800	
5429 Computer Equipment	700	-	700	-	-	-	500	500	500	
5441 Chemicals	638,865	595,428	654,102	477,418	651,308	495,610	679,403	713,373	713,373	
5442 Residual Disposal	116,736	116,736	80,494	78,550	134,136	126,800	141,020	155,122	155,122	
5443 Water Assessment	8,000	8,000	8,000	8,000	9,055	9,055	8,000	8,200	8,200	
5580 Uniform Allowance	-	-	-	-	-	-	-	-	-	
5703 Dues and Memberships	700	-	342	342	700	700	700	700	700	
5790 Staff Development/Training	11,922	5,810	8,848	5,766	9,621	7,651	9,500	9,500	9,500	
Total Operating	1,576,631	1,455,333	1,582,080	1,272,404	1,617,418	1,391,161	1,531,929	1,605,490	1,605,490	
<i>Capital Outlay</i>										
5833 Capital Outlay	-	-	-	-	-	-	-	-	-	
Total Capital Outlay	-	-								
Total Budget	2,602,089	2,392,454	2,641,424	2,199,595	2,589,350	2,338,145	2,654,939	2,769,823	2,769,823	-

	FY2021 BUDGETED	FY2022 BUDGETED	FY2023 BUDGETED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC	FY2025 FIN COM REC
Position	FTE	FTE	FTE	FTE	FTE	FTE	FTE
Assistant Superintendent	0.3	0.3	0.3	0.3	0.3	0.3	
Chief Water Operator	1	1	1	1	1	1	
Chemist	1	1	1	1	1	1	
Head Filter Operator (HFO)	6	6	6	6	6	6	
Operator-in-training	2	2	2	2	2	2	
Water Machinery Repairman	1	1	1	1	1	1	
Project Manager							
Cross Connection Coordinator	1	1	1	1	1	1	
Intern	-	-	-	-	-	-	
Total Staffing	12	12	12.3	12.3	12.3	12.3	0

**FISCAL YEAR 2025
DPW WATER FILTRATION DEPARTMENT SALARY INFORMATION TOWN MANAGER RECOMMENDED**

Regular Salaries

Name	Position	Ann. Date	Grade	Step	Base Salary	Longevity %	Longevity \$	Wage Def.	Total Salary
Scott Brinch	Assistant Director - Utility	12/18/2017	A10	10	35,235		350		35,585
Michael Donovan	Chief Operator	3/21/1994	A9	10	96,957		3,200		100,157
Matt Hirtle	Deputy Chief Operator	11/4/2002	A8	10	88,940		2,700		91,640
Kaylyn Michaud	Chemist	8/7/2023	4	7	83,476				83,476
Michael Brothers	Head Filter Oper.	8/30/2004	3B	7	79,823		2,700		82,523
Rose Doherty	Head Filter Oper.	6/15/2020	3B	7	79,823				79,823
Vacant	Machinery Repairman		3	5	67,395				67,395
Robert Miner	Head Filter Oper.	4/26/1999	3B	7	79,823		3,200		83,023
	Night Shift Differential				2,395				2,395
John Salerno	Head Filter Oper.	7/3/1989	3B	7	37,505		862	782	39,149
Repl. John Salerno	Head Filter Oper.	7/3/1989	3B	7	79,823				79,823
Gillian Barlow	CrossConnection Surveyor		3	7	74,296				74,296
John Trzcinski	Operator-in-training		3	7	74,296				74,296
William Pellerin	Operator-in-training	8/14/2023	3	2	6,224				6,224
	Step Increase		3	3	53,384				53,384
Andrew Kritter	Operator-in-training	8/14/2023	3	3	6,598				6,598
	Step Increase		3	4	56,585				56,585
Night Operator	Night Shift Differential				2,395				2,395
Total Regular Salaries					1,004,973	-	13,012	782	1,018,768

Temporary Part-Time Salaries

Name	Position	Ann. Date	Grade	Step	Base Salary	Longevity %	Longevity \$	Wage Def.	Total Salary
Total Temporary Part-Time Salaries					-				-

Overtime

Name	Position	Amount	Total Benefit
	HFOs and Chemist	81,900	81,900
Total Overtime		81,900	81,900

Uniform Allowance

Name	Position	Amount	Total Benefit
	(12) Staff	5,400	5,400
Total Uniform Allowance		5,400	5,400

Car Allowance

Name	Position	Per/Month	# Months	Total Benefit
Michael Donovan	Chief Operator	300	12	3,600
Scott Brinch	Assistant Director	300	12	3,600
Total Car Allowance		600		7,200

Sick Leave Buy Back

Name	Position	Retirement Date	# of Days	Annual Sal.	Weekly Sal.	Daily Sal.	Total Benefit
Robert Miner	Head Filter Oper.		5	85,418	1,643	328.53	1,643
John Salerno	Head Filter Oper.		66	85,930	1,653	330.50	21,813
Total Sick Leave Buy-Back							23,456

Holiday Pay

Name	Position	Amount	Total Benefit
	(4) HFOs	25,110	25,110
Total Holiday Pay		25,110	25,110

All Other Salaries

Name	Position	Amount	Total Benefit
Out of Grade	HFOs	500	500
License Incentive		2,000	2,000
Total All Other Salaries		2,500	2,500

Department Total									1,164,333
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**FISCAL YEAR 2025
DPW WATER FILTRATION DEPARTMENT SALARY INFORMATION BUDGET REQUEST**

Regular Salaries

Name	Position	Ann. Date	Grade	Step	Base Salary	Longevity %	Longevity \$	Wage Def.	Total Salary
Scott Brinch	Assistant Director - Utility	12/18/2017	A10	10	35,235		350		35,585
Michael Donovan	Chief Operator	3/21/1994	A9	10	96,957		3,200		100,157
Matt Hirtle	Deputy Chief Operator	11/4/2002	A8	10	88,940		2,700		91,640
Kaylyn Michaud	Chemist	8/7/2023	4	7	83,476				83,476
Michael Brothers	Head Filter Oper.	8/30/2004	3B	7	79,823		2,700		82,523
Rose Doherty	Head Filter Oper.	6/15/2020	3B	7	79,823				79,823
Vacant	Machinery Repairman		3	5	67,395				67,395
Robert Miner	Head Filter Oper.	4/26/1999	3B	7	79,823		3,200		83,023
	Night Shift Differential				2,395				2,395
John Salerno	Head Filter Oper.	7/3/1989	3B	7	37,505		862	782	39,149
Repl. John Salerno	Head Filter Oper.	7/3/1989	3B	7	79,823				79,823
Gillian Barlow	CrossConnection Surveyor		3	7	74,296				74,296
John Trazcinski	Operator-in-training		3	7	74,296				74,296
William Pellerin	Operator-in-training	8/14/2023	3	2	6,224				6,224
	Step Increase		3	3	53,384				53,384
Andrew Kritter	Operator-in-training	8/14/2023	3	3	6,598				6,598
	Step Increase		3	4	56,585				56,585
Night Operator	Night Shift Differential				2,395				2,395
Total Regular Salaries					1,004,973	-	13,012	782	1,018,768

Temporary Part-Time Salaries

Name	Position	Ann. Date	Grade	Step	Base Salary	Longevity %	Longevity \$	Wage Def.	Total Salary
Total Temporary Part-Time Salaries					-				-

Overtime

Name	Position	Amount	Total Benefit
	HFOs and Chemist	81,900	81,900
Total Overtime		81,900	81,900

Uniform Allowance

Name	Position	Amount	Total Benefit
	(12) Staff	5,400	5,400
Total Uniform Allowance		5,400	5,400

Car Allowance

Name	Position	Per/Month	# Months	Total Benefit
Michael Donovan	Chief Operator	300	12	3,600
Scott Brinch	Assistant Director	300	12	3,600
Total Car Allowance		600		7,200

Sick Leave Buy Back

Name	Position	Retirement Date	# of Days	Annual Sal.	Weekly Sal.	Daily Sal.	Total Benefit
Robert Miner	Head Filter Oper.		5	85,418	1,643	328.53	1,643
John Salerno	Head Filter Oper.		66	85,930	1,653	330.50	21,813
Total Sick Leave Buy-Back							23,456

Holiday Pay

Name	Position	Amount	Total Benefit
	(4) HFOs	25,110	25,110
Total Holiday Pay		25,110	25,110

All Other Salaries

Name	Position	Amount	Total Benefit
Out of Grade	HFOs	500	500
License Incentive		2,000	2,000
Total All Other Salaries		2,500	2,500

Department Total									1,164,333
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**FISCAL YEAR 2024
DPW WATER FILTRATION DEPARTMENT SALARY INFORMATION**

Regular Salaries

Name	Position	Ann. Date	Grade	Step	Base Salary	Longevity %	Longevity \$	Wage Def.	Total Salary
Scott Brinch	Assistant Director - Ut	12/18/2017	A10	10	35,235		350		35,585
Michael Donovan	Chief Operator	3/21/1994	A9	9	56,178		3,200		59,378
	2/4/2024 Step	2/4/2023		10	39,378				39,378
Vacant	Chemist		4	7	83,476				83,476
Michael Brothers	Head Filter Oper.	8/30/2004	3B	7	79,824		2,200		82,024
Rose Doherty	Head Filter Oper.	6/15/2020	3B	7	79,824				79,824
	Night Shift Differential				2,395				2,395
Brian Beauchesne	Machinery Repairman		3	7	74,296				74,296
Matt Hirtle	Head Filter Oper.	11/4/2002	3B	7	79,824		2,700		82,524
Robert Miner	Head Filter Oper.	4/26/1999	3B	7	79,824		2,800	\$2,892.00	85,516
	Night Shift Differential				2,566				2,566
John Salerno	Head Filter Oper.	7/3/1989	3B	7	79,824		3,200	\$2,906.00	85,930
Raun Nichols	CrossConnection Surv	10/1/2019	3	7	74,296		250.00		74,546
John Jensen	Head Filter Oper.	4/5/2021	3b	7	79,824				79,824
John Trzcinski	Operator-in-training		3	6	56,385				56,385
	4/25/2024 Step			7	15,657				15,657
Vacant	Operator-in-training		3	2	56,583				56,583
Operator Pool	Night Shift Differential				5,000				5,000
Total Regular Salaries					980,389	-	14,700	5,798	1,000,887

Temporary Part-Time Salaries

Name	Position	Ann. Date	Grade	Step	Base Salary	Longevity %	Longevity \$	Wage Def.	Total Salary
Total Temporary Part-Time Salaries					-				-

Overtime

Name	Position	Amount	Total Benefit
	HFOs and Chemist	78,000	78,000
Total Overtime		78,000	78,000

Uniform Allowance

Name	Position	Amount	Total Benefit
	(12) Staff	6,480	6,480
Total Uniform Allowance		6,480	6,480

Car Allowance

Name	Position	Per/Month	# Months	Total Benefit
Michael Donovan	Chief Operator	300	12	3,600
Scott Brinch	Assistant Director	300	12	3,600
Total Car Allowance		600		7,200

Sick Leave Buy Back

Name	Position	Retirement Date	# of Days	Annual Sal.	Weekly Sal.	Daily Sal.	Total Benefit
Robert Miner	Head Filter Oper.		5	88,082	1,687	337.48	1,687
John Salerno	Head Filter Oper.		5	85,930	1,646	329.23	1,646
Total Sick Leave Buy-Back							3,334

Holiday Pay

Name	Position	Amount	Total Benefit
	(4) HFOs	25,110	25,110
Total Holiday Pay		25,110	25,110

All Other Salaries

Name	Position	Amount	Total Benefit
Out of Grade	HFOs	500	500
License Incentive		1,500	1,500
Total All Other Salaries		2,000	2,000

Department Total									1,123,011
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**FISCAL YEAR 2023
DPW WATER FILTRATION DEPARTMENT SALARY INFORMATION**

Regular Salaries

Name	Position	Ann. Date	Grade	Step	Base Salary	Longevity %	Longevity \$	Wage Def.	Total Salary
Scott Brinch	Assistant Director - Uti	12/18/2017	A10	10	34,459		200		34,659
Michael Donovan	Chief Operator	3/21/1994	A9	8	38,037		3,200		41,237
	Step	2/4/2023		9	53,523				53,523
Melissa Woodbury	Chemist	5/17/2018	A8	7	35,597		125		35,722
	Step	11/7/2022		8	46,320				46,320
Michael Brothers	Head Filter Oper.	8/30/2004	3B	7	78,067		2,200		80,267
Rose Doherty	Head Filter Oper.	6/15/2020	3B	7	78,067				78,067
Vacant	Machinery Repairman		3	7	999				999
Matt Hirtle	Head Filter Oper.	11/4/2002	3B	7	78,067		2,535		80,602
Robert Miner	Head Filter Oper.	4/26/1999	3B	7	78,067		2,700	\$2,733.00	83,500
John Salerno	Head Filter Oper.	7/3/1989	3B	7	78,067		3,200	\$2,733.00	84,000
Raun Nichols	CrossConnection Surv	10/1/2019	3	7	72,661				72,661
John Jensen	Head Filter Oper.	4/5/2021	3b	7	78,067				78,067
Cole Johansen	Operator-in-training	7/4/2022	3	4	62,180				62,180
Vacant	Operator-in-training		3	2	-				-
Total Regular Salaries					812,178	-	14,160	5,466	831,804

Temporary Part-Time Salaries

Name	Position	Ann. Date	Grade	Step	Base Salary	Longevity %	Longevity \$	Wage Def.	Total Salary
Total Temporary Part-Time Salaries					-				-

Overtime

Name	Position	Amount	Total Benefit
	HFOs and Chemist	94,000	94,000
Total Overtime		94,000	94,000

Uniform Allowance

Name	Position	Amount	Total Benefit
	(12) Staff	540	5,940
Total Uniform Allowance		540	5,940

Car Allowance

Name	Position	Per/Month	# Months	Total Benefit
Michael Donovan	Chief Operator	300	12	3,600
Scott Brinch	Assistant Director	300	12	3,600
Total Car Allowance		600		7,200

Sick Leave Buy Back

Name	Position	Retirement Date	# of Days	Annual Sal.	Weekly Sal.	Daily Sal.	Total Benefit
Robert Miner	Head Filter Oper.		5			319.92	1,600
John Salerno	Head Filter Oper.		5			321.84	1,609
Total Sick Leave Buy-Back							3,209

Holiday Pay

Name	Position	Amount	Total Benefit
	(4) HFOs	26,179	26,179
Total Holiday Pay		26,179	26,179

All Other Salaries

Name	Position	Amount	Total Benefit
Out of Grade	HFOs	1,200	1,200
License Incentive		2,400	2,400
Total All Other Salaries		3,600	3,600

Department Total									971,932
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DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

5210 Energy Utilities

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
406,486	396,286	435,148	404,859	471,745	441,736	435,000	435,000	435,000

The annual flow through the plant is based on a consumption year of 910 million gallons and a high cost of \$356.3/MG (2018); the 4-year average is \$345/mg as outlined below

402,600 402,600

Natural gas has varried depending on serverity of winter weather
Avg Nat Grid and Direct Energy costs for last three years \$27,000;

32,400 32,400

Total 5210 Energy Utilities: 435,000 435,000

DESCRIPTION/DETAIL

DPW WATER FILTRATION EXPENSES

5231 Water Purchase

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
12,314	9,839	13,684	8,325	12,857	6,935	9,000	9,000	9,000

Purchase of water for residents supplied from the City of Lowell

9,000 9,000

Total 5231 Water Purchase:

9,000 9,000

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

5240 Repairs and Maintenance

	FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
	192,933	156,326	194,710	133,230	190,876	176,725	121,931	140,495	140,495

The budget number anticipates need and correctly reflects a BMP of budgeting 10% of operating for repairs and maintenance

Chemical Feed Pump Repairs and Supplies

Rebuild Kits for Chemical feed pumps; 1 6,300 \$ 6,300

Various PVC parts/piping, primer, glue 1 3,675 \$3,675

Lubrication

White Grease, Red Grease, Turbo Oil 1 525 \$525

Backflow Program

Brass Inserts for Testing Backflow Devices 1 \$575 \$575

Calibration of Backflow Testing Gauge 2 \$160 \$160

Sludge Drying System

Replacement Filter Cloth 2 1,260 \$1,260

Replacement Autovac Vacuum Seals 2 2,800 \$2,800

Replacement Vacuum Pump Seals 2 2,500 \$2,500

New Knife Blades 3 4,400 \$4,400

New system components based on 2022 inspection 1 4,200 \$4,200

Replacement Items

Sample Pumps 2 850 \$850

Contingency Repair (major failure)

Unanticipated or Unplanned 1 50,000 \$50,000

Repair Services

HVAC Maintenance/Repair 1 8,400 \$8,400

Aeration Blower Maintenance 1 5,250 \$5,250

Misc.. Repairs and Contingency (small items) 1 15,750 \$15,750

Landscape Maintenance 1 6,300 \$6,300

Maintenance for remote Stations 1 6,300 \$6,300

4 Generators Annual Maintenance (oil/filter) 1 2,100 \$2,100

Sludge collection system/ motors/ gears/ chain 1 2,100 \$2,100

Mechanical Seals for Large Water Pumps 2 4,400 \$4,400

Facility Maintenance

Vegetation Mngt at Storage Tank locations 1 3,150 \$3,150

Cleaning Services 1 9,500 \$9,500

5% on FY 23 inflation/goods and services & alternate vendors due to supply chain issues

Total 5240 Repairs and Maintenance: \$ 140,495 \$ 140,495

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING
5270 Leases and Contract Services

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
73,933	66,823	77,892	65,370	36,712	35,005	80,500	45,500	45,500

Instrument Calibration/Repair (Plant, monthly)		12				150	1,800	1,800
Instrument Calibration program		4				3,500	14,000	14,000
Thermo Fluoride applicator maintenance		1				1,000	1,000	1,000
Lab Equipment Calibration (Annual)		1				1,500	1,500	1,500
Copier Maintenance Contract		1				400	400	400
HVAC maintenance contract		1				5,000	5,000	5,000
Equipment / pump rental		1				200	200	200
Syncta Computer Software Annual Support		1				800	800	800
Tank Rental Propane		1				200	200	200
Tank Lease Nitrogen		1				200	200	200
Fire System Maintenance/Testing		2				2,500	5,000	5,000
Solarbee tank mixer Maintenance Contract		1				2,400	2,400	2,400
Backflow Consulting & Contracting Services		1				10,000	10,000	10,000
Maintenance new SCADA system		1				2,000	2,000	2,000
Photocopier Lease		1				1,000	1,000	1,000
Contracted Laboratory Services						-	-	-
							45,500	45,500

Total 5270 Leases and Contracts:

Contracted Laboratory services has been reduced from \$36k due to Chemist being hired.

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING
5310 Professional Services

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
-	-	-	-	-		-	10,000	10,000

Laboratory/Chemist Consultant

10,000 10,000

Total 5310 Professional Services:

10,000 10,000

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

5340 Communications

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
19,928	9,379	20,518	20,312	15,966	13,358	11,100	7,700	7,700

CCR report and mailing							3,600	3,600
CCTV Monitoring,							2,000	2,000
Cyber Comm License							100	100
Telephone/FIOS (Verizon)							1,500	1,500
Backflow direct mailing							500	500

Total 5340 Communications: **7,700** **7,700**

Internet now on Town Fiber

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

5420 Office Supplies

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
2,742	2,742	1,509	1,062	600	521	2,600	2,600	2,600
Pens, paper, toner, fax supplies, File cabinets, ink cartridges, laser jet cartridges Labeling/chart printouts and business postage							2,600	2,600
<i>Total 5420 Office Supplies:</i>							2,600	2,600

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

5423 All Other Supplies and Equipment

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
91,373	87,964	86,134	69,169	83,842	77,065	32,675	67,800	67,800

Laboratory Budget

Performance Evaluation DEP	1	400					400	400
Misc. accessories, expendables	1	15,000					15,000	15,000
Inorganic Chemicals, KI, acids, reagents	1	6,000					6,000	6,000
Instrumental Supplies, analytical kits	1	4,000					4,000	4,000
FEDEX for overnight sample shipments	1	3,500					3,500	3,500
Organic Chemicals, dyes, indicators, etc.	1	3,000					3,000	3,000
pH meter, supplies, standards, probes	1	7,000					7,000	7,000
Chemtrec chlorine analyzers (maintenance)	6	700					4,200	4,200
PM Service Plans for Lab Equipment	4	3,000					12,000	12,000

General Plant Items

Cleaning supplies, brooms, mops, pads	1	1,600					1,600	1,600
Paper products (TP, C-fold towels etc.)	1	1,200					1,200	1,200
Safety supplies, replacement masks, filters	1	2,000					2,000	2,000
Misc. items, batteries, flashlights, gloves,	1	1,000					1,000	1,000
First Aid kit supplies	6	200					1,200	1,200
Hazardous chemical disposal	1	1,000					1,000	1,000
Shop Tools	1	2,500					2,500	2,500
Nitrogen gas, Propane	1	1,100					1,100	1,100
Safety shower/Eye wash/fume hood inspection	1	1,100					1,100	1,100

Total 5423 All Other Supplies and Equipment: 67,800 67,800

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

5429 Computer Equipment

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
700	-	700	-	-	-	500	500	500

Computer equipment as needed

500 500

Total 5429 Computer Equipment:

500 500

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

Chemicals

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
638,865	595,428	654,102	477,418	651,308	495,610	679,403	713,373	713,373

Tewksbury Water Plant Chemical Budgeting Using Tank Fill Counts/Deliveries Total Chemicals: 713,373

This method is based on fill counts of chemical deliveries

Based on actual amount of each chemical used and historically how many deliveries or fills used.

One cycle of each chemical (where applicable) is added for contingency of a hot summer, high usage or low amount at end of year.

Depending on usage and how much chemical is left at the end of the year will determine if the extra fill is needed.

Certain chemicals such as GAC and ZOP will not have overages due to the nature of the usage.

Prediction of Chemical Use and Expected Cost

Chemical Name	Amount	Units	Fills	Cost /fill	FY24	FY24		
				FY24	Total Cost	Projection		
NaChlorite	1000	gallons	7	\$6,983	\$48,877.50	\$51,321	5% Increase	
Alum	4000	gallons	12	\$6,563	\$78,750.00	\$82,688	5% Increase	
Hypo	4000	gallons	10	\$8,085	\$80,850.00	\$84,893	5% Increase	
HCl	330	gallons	14	\$1,523	\$21,315.00	\$22,381	5% Increase	
Silly Acid (Fluoride)	300	gallons	8	\$1,890	\$15,120.00	\$15,876	5% Increase	
25% NaOH	4000	gallons	12	\$6,930	\$83,160.00	\$87,318	5% Increase	
ZOP (Corrosion Inhibit)	1000	gallons	2	\$9,450	\$18,900.00	\$19,845	5% Increase	
**PAC	5	bags	4	\$1,890	\$7,560.00	\$7,938	5% Increase	
GAC (two filters year)	70000	pounds	2	\$52,185	\$104,370.00	\$109,589	5% Increase	
DE	40	bags	7	\$31,500	\$220,500.00	\$231,525	5% Increase	
					\$679,403	\$713,373		
							\$ 713,373	\$ 713,373

Some misc. chemicals are purchased such as ice melter, back-up barrels of chemicals etc.

GAC has been converted to virgin carbon instead of reactivated for logistical, quality, and cost efficiency issues.

Filters can likely go for 3+ years without change with virgin carbon instead of every other year.

Hypo use was very high in summer 2020 due to drought, river conditions, and residents WFH

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

Residual Disposal

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
116,736	116,736	80,494	78,550	134,136	126,800	141,020	155,122	155,122

Removal and disposal of solid Waste residuals removed from the Water Filtering process
3-Year Average 62,160

Residuals Calculation:

New annual average based on 890 Million Gallons of water production and producing 35 mg/L of total settling solids from the pretreatment. The plant will use about 365,000 lbs. of DE which will remove 331,500 (+/-) lbs of solids. The typical sludge has a moisture content of about 33%. Therefore the 697,000 lbs of solids will yield 2,112,671 lbs of wet cake. Amount generated: 1,060 +/- tons of wet cake per year. Unit load (Dumpster) consist of 5-6 runs. Each run @ 3 tons +/-, for a total of 15-18 tons +/- per pull. Sludge is blended with compost per DEP requirements. Compost approx. 0.75 ton/cy

		FY23	FY24	Projected Increase		
60	220	14,520	15,972	10% Increase		
1200	50	66,000	72,600	10% Increase		
900	50	49,500	54,450	10% Increase		
		<u>130,020</u>	<u>143,022</u>		143,022	143,022
Consultant fees for permitting, sampling, and brokering.		11,000	12,100	10% Increase	12,100	12,100
	Total	141,020	155,122			

Residuals are now transported weekly and stockpiled at the DPW Yard. Semi-annually residuals are mixed with yard waste/compost and hauled to farms in the area. Almost 60 transports per year now. More water produced and trucking has gone up

Total Residual Disposal: 155,122 155,122

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

5580 Uniform Allowance

FY2010 BUDGETED	FY2010 EXPENDED	FY2011 BUDGETED	FY2011 EXPENDED	FY2012 BUDGETED	FY2012 EXPENDED	FY2013 BUDGETED	FY2014 DEPT REQ	FY2014 TM REC
-	-	-	-	-	-	-	-	-

Total 5580 Uniform Allowance: - -

DESCRIPTION/DETAIL

DPW WATER FILTRATION OPERATING

5790 Staff Development/Training

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
11,922	5,810	8,848	5,766	9,621	7,651	9,500	9,500	9,500
Training and Certification for Backflow Coordinator							1,000	1,000
Treatment Operators training for D-3 License (2)							2,000	2,000
Safety Training							2,000	2,000
CEU's for treatment license Recertification							3,500	3,500
CEU's for laboratory/Chemist Recertification							1,000	1,000
<i>Total 5790 Staff Development/Training:</i>							9,500	9,500

DESCRIPTION/DETAIL

DPW WATER FILTRATION
5833 Capital Outlay

FY2021 BUDGETED	FY2021 EXPENDED	FY2022 BUDGETED	FY2022 EXPENDED	FY2023 BUDGETED	FY2023 EXPENDED	FY2024 BUDGETED	FY2025 DEPT REQ	FY2025 TM REC
-		-	-	-		-	-	-

Total 5833 Capital Outlay: - -