

2023 Budget Workshop

Water Fund

48.75 Miles of line

524 Valves

170 Hydrants, 26 standpipes

2112 Meters, 1260 Radio Reads

82 New Meter Installations 2022 YTD

15 New services 2022 YTD

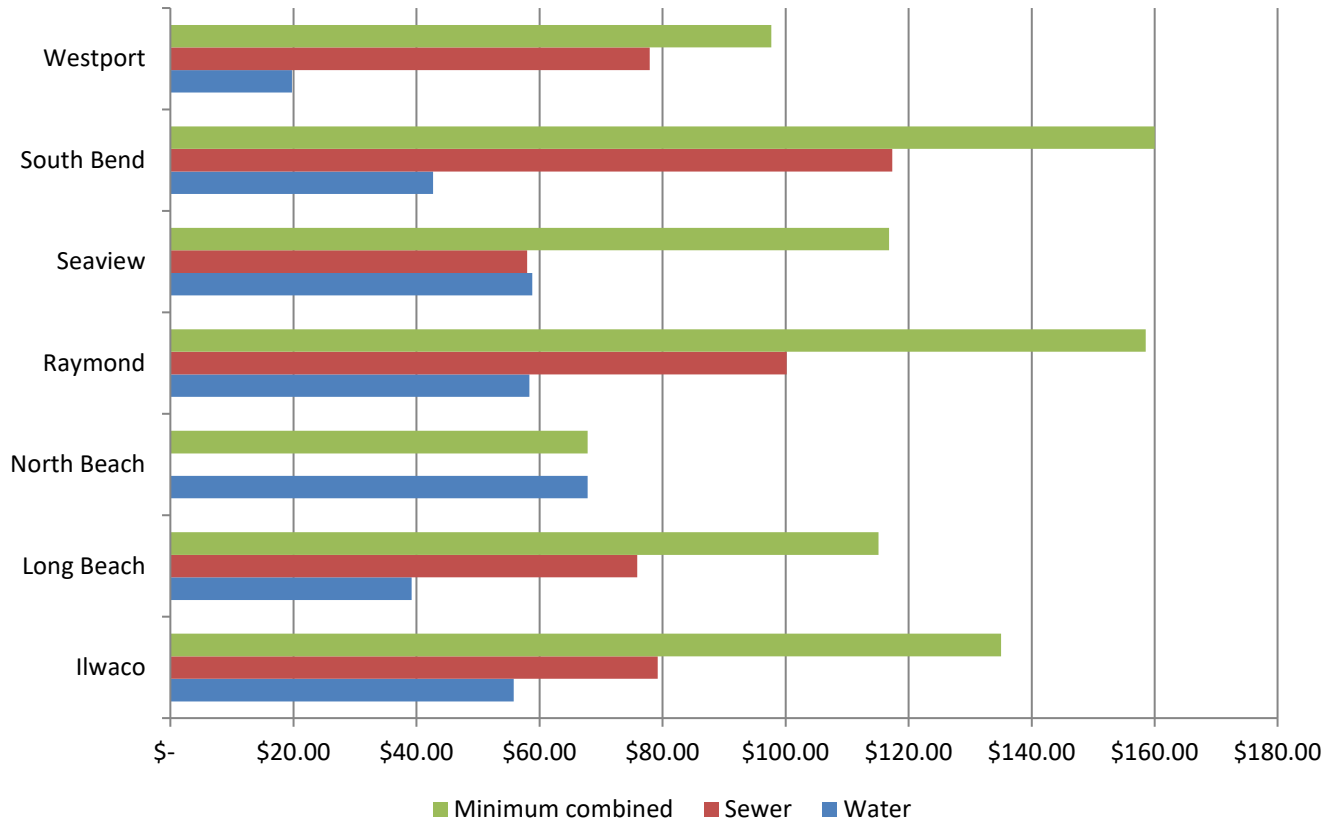
127 Move Outs 2022 YTD

188 Locates 2022 YTD

493,035 Gallons Treated On Average Per Day (2021)

2023 Budget

Water Fund – 2022 Rate Comparison @ 400 Cubic Feet



2022 Rates	Ilwaco	Long Beach	North Beach	Raymond	Seaview	South Bend	Westport
Water	\$ 55.80	\$ 39.23	\$ 67.80	\$ 58.34	\$ 58.85	\$ 42.67	19.75

Rate increase as proposed is \$1.57 per month, \$18.84 per year. This is a 4% increase.

2023 Budget

Water Rates

		Proposed	
	2022	2023	Difference
Residential	\$ 39.23	\$ 40.80	\$ 1.57
Senior Low income	Discount		
\$25,475-\$29,631	15%	\$ 34.68	\$ 6.12
\$15,796-\$25,474	30%	\$ 28.56	\$ 12.24
\$9,519-\$15,795	45%	\$ 22.44	\$ 18.36
\$9,518 and under	60%	\$ 16.32	\$ 24.48

2023 Budget

Monthly Water Rates

<u>Inside City Limits:</u>				
METER SIZE	2020	2021	2022	2023
Residential 3/4 - 1"	\$37.71	\$38.09	\$39.23	\$40.80
Commercial 3/4 1"	\$44.86	\$45.30	\$46.66	\$48.53
Commercial 1.5"	\$53.36	\$53.90	\$55.51	\$57.73
Commercial 2"	\$77.06	\$77.83	\$80.17	\$83.38
Commercial 3"	\$104.71	\$105.75	\$108.93	\$113.28
<u>Outside City Limits:</u>				
METER SIZE	2020	2021	2022	2023
Residential 3/4 - 1"	\$56.59	\$57.15	\$58.87	\$61.22
Commercial 3/4 1"	\$67.28	\$67.95	\$69.99	\$72.79
Commercial 1.5"	\$79.99	\$80.79	\$83.21	\$86.54
Commercial 2"	\$115.60	\$116.75	\$120.25	\$125.06
Commercial 3"	\$157.07	\$158.64	\$163.40	\$169.94
<u>Inside City Limits:</u>				
	2020	2021	2022	2023
Subservice Charge	\$3.96	\$4.00	\$4.12	\$4.29
Nursing Home / Bed	\$1.51	\$1.52	\$1.57	\$1.63
Commodity / 100 cu ft.	\$6.74	\$6.81	\$7.01	\$7.29
<u>Outside City Limits:</u>				
	2020	2021	2022	2023
Subservice Charge	\$5.93	\$5.99	\$6.17	\$6.41
Nursing Home / Bed	\$2.25	\$2.27	\$2.34	\$2.43
Commodity / 100 cu ft.	\$6.74	\$6.81	\$7.01	\$7.29

2023 Budget

6-Year Capital Plan

- Between 2023 and 2029 we are expecting to expend \$10,113,233
 - These figures are estimates based on funding opportunities and awards.
- Prices of future projects will be higher due to inflation and other protentional outside factors.
- Due to a 40-year high inflation rate, operational expenses and repairs and maintenance supplies have increased.

2023 Budget Water Fund-Capital

Water Treatment				
Clearwell Pump – Replacement	Purchase two spare vertical turbine pumps for the water treatment plant (WTP). Project is for cost of two pumps only and is intended to increase the WTP reliability in the event of a failure of one of the clearwell pumps. Failed pump would be repaired and be retained as a spare.	\$46,500	2022-2023	City Funds – Water
Backwash Basin – Improvements	The WTP has a backwash water disposal pond that currently has a clay bottom. The city needs to remove sediment one to two times per year with a vactor truck. To make maintenance easier, city needs to install a liner in the pond.	\$78,400	2023	City Funds – Water

2023 Budget Water Fund-Capital

Water Storage				
Reservoir 2 – Inlet Pipe	Remove the inlet riser in Reservoir 2 to increase the effective storage depth in Reservoir 1. By removing this inlet riser, it will increase the effective storage depth in Reservoir 1 by approximately 15’ allowing for the storage of an additional 560,000 gallons.	\$14,100	2028	City Funds - Water
Reservoir 2 - Improvement	Recoat the interior and exterior of Reservoir 2, which was originally constructed in 2003. The coating is anticipated to reach the end of its useful life and will need to be removed and replaced.	\$1,047,400	2028	Public Works Trust Fund (PWTF) (Loan), WA Department of Ecology, State Revolving Fund (SRF) (Loan), City Funds – Water

2023 Budget Water Fund-Capital

Booster Pump Stations				
No projects during this plan cycle.				
Water Distribution				
Ocean Beach Blvd North (10th Street N to 26th Street N)	Replace approximately 4,800 linear feet (LF) of 6" water main with new a 12" PVC water main. The existing water main is primarily 6" Asbestos Cement (AC) pipe which has reached the end of its useful life. This project will reduce distribution system leakage and will improve fire flows in the area.	\$2,185,600	2024	US Department of Agriculture Rural Development (USDA), Public Works Trust Fund (PWTF), Drinking Water State Revolving Fund (SRF), City Funds – Water
17th Street South (From Ocean Beach Blvd South to Idaho Street South)	Replace approximately 1,100LF of small diameter pipe with new 8" PVC water main along 17 th Avenue South, from Ocean Beach Blvd to Idaho Street. The existing water main is 1.5" steel, 4" AC and 2" ABS pipe which has reached the end of its useful life and is significantly undersized to provide for fire flows in the area. This project will reduce distribution system leakage and will improve fire flows in the area. The section between Washington Street and Idaho Street was completed in 2021. Remaining part of project still needs to be completed.	\$410,700	2025	City Funds - Water

2023 Budget Water Fund-Capital

Water Distribution				
<p>Ocean Beach Blvd South (42nd Place to 10th Street South)</p>	<p>Replace approximately 4,900 LF of 2” and 6” water main with new 12” PVC water main. The existing water main is primarily 6” Asbestos Cement (AC) and 2” steel pipe which has reached the end of its useful life. This project will reduce distribution system leakage and will improve fire flows in the area.</p>	<p>\$2,326,100</p>	<p>2026</p>	<p>US Department of Agriculture Rural Development (USDA), Public Works Trust Fund (PWTF), Drinking Water State Revolving Fund (SRF), City Funds – Water</p>
<p>Washington Avenue (From 35th Street to Sid Snyder Drive)</p>	<p>Replace approximately 7,100 LF of 4” water main with new 8” PVC water main along Washington Avenue from 35th Street to Sid Snyder Drive. The existing water main is 4” AC pipe which has reached the end of its useful life and is undersized to provide fire flows in the area. This project will reduce distribution system leakage and will improve fire flows in the area.</p> <p>The section between Sid Snyder to 51st Place was completed in 2021. Remaining part of the project still needs to be completed.</p>	<p>\$2,704,800</p>	<p>2027</p>	<p>US Department of Agriculture Rural Development (USDA), Public Works Trust Fund (PWTF), Drinking Water State Revolving Fund (SRF), City Funds - Water</p>
<p>Remote Read Meters (Entire Water System)</p>	<p>Purchase and install approximately 200 digital and auto read water meters per year. This project is approximately half completed and is anticipated to be fully completed in 2027. All meters being upgraded are removed and replaced by city staff as time and workload allows.</p>	<p>\$200,000 per year</p>	<p>2022, 2023, 2024, 2025, 2026, 2027</p>	<p>City funds - Water</p>

2023 Budget Projects

Water Connection & Rate Study	\$40,000	2022-2023	Develop 5-year water service rate schedule
Water Rights Consolidation	\$10,000	2023	Work with Ecology to consolidate water rights. (explanation)
Leak Detection	\$10,000	2020-2029	Annual Leak Detection
Water System Plan Update		2029	Update required every 10 years
PM Program/SOP Development	\$10,000	2023-2028	Preventative Maintenance Program & Standard Operation Procedure Development

2023 Budget

Water Fund

	Annual Requirements	
1	Calibration WTP Lab Equipment - Annual	\$5,000
2	Maintenance WTP Air Compressors - Annual	\$3,500
3	Testing & maintenance WTP hypo disinfectant system - Annual	\$2,000
4	Technical Support WTP Main Drive Electronic Control System - Annual	\$6,000
5	Testing & Technical Support WTP & Dolman Reservoir Back Up Generators - Annual	\$4,500
6	Verification WTP pressure and level sensor performance - Annual	\$2,500
7	Cleaning of WTP Sediment ponds & CIP basin - Annual	\$3,500
8	Testing of motors & pumps at WTP - Annual	\$8,700
9	Cleaning & Inspection of Reservoirs 1 & 2 - Every 3rd Year	\$5,750
10	Professional Services - WTP Engineering Consulting for Process and Control Operations	\$150.00/hr
		\$41,450.00

All items included in presented budget

2023 Budget

Water Fund

	Mandated by the Washington State Department of Health	
11	Professional Service - Water Conservation Program	\$2,000
12	Professional Service - Backflow Prevention Program	\$18,000
13	Professional Service - Algae control for reservoirs - application and material	\$27,000
14	Professional Service - Water Rate Study	\$42,000
15	Signage - Watershed Notification	\$1,500
16	WA DOH , Sanitary Survey Audit - Every 3rd year	\$5,000
		\$95,500
	Capital Facilities & Equipment	
17	Professional Service - Vertical Turbine Pumps for Clearwell at Water Treatment Plan	\$46,500
18	Professional Service - Backwash Water Disposal Pond , Liner Installation	\$78,400
19	Pole Building for storage of equipment	\$35,000
		\$159,900
	Training	
20	Continuing Education - Water Operator CEU's, Licenses and Professional Developme	\$12,000
21	Certification Upgrades - (3)	\$2,000
		\$14,000

All items included in presented budget

2023 Budget

Water Fund

	Equipment Needs	
22	Personal Protective Equipment & Supplies - New and replacement	\$7,500
23	Lab Testing Glassware & Supplies	\$1,000
24	Tools & Equipment - WTP	\$7,500
25	Landscape Tools & Maintenance	\$1,000
26	Information Technology - Laptop, New	\$1,400
27	SCADA - Electrical Components & Maintenance	\$10,000
		\$28,400
	Mechanic Shop	
28	Tool Repair & Replacement	\$2,000
29	Repair Manual Library Software - Annual Upgrade	\$1,000
30	Repair Parts Manual Software - Annual Upgrade	\$1,000
		\$4,000

All items included in presented budget

2023 Budget

Training and Certification Plan

Current Certifications & Maintain:

JB – WTPO 2 (Working to Earn – Level 3), WDM 2, Asbestos Certification

MW – WTPO 1 (Working to Earn – Level 2), WWTPO 1, WDS , Asbestos Certification

LK – WTPO 1 (Earned in 2022), CCS (Earned in 2022), WDM 1 (Earned in 2022), Asbestos Certification

TH – (WDM - Working to Earn), WDS , Competent Person Asbestos Certification

MM – (WDM - Working to Earn), Competent Person Asbestos Certification

KJ – Asbestos Certification

TP – Multiple ASE Certifications to include Master Technician & Heavy-Duty Truck, Asbestos Certification

Acronym Definitions:

WTPO – Water Treatment Plant Operator

WDM – Water Distribution Manager

WDS – Water Distribution Specialist

CCS – Cross Connection Control Specialist

WWTPO – Wastewater Treatment Plant Operator

ASE – Automotive Service Excellence

2023 Budget

Water Fund

CITY OF LONG BEACH				
WATER FUND - 401				
	2023 Budget	2022 Estimated	2022 Budget	2021 Actual
REVENUE				
BEGINNING FUND BALANCE	388,474	472,202	520,400	407,145
TOTAL BEGINNING FUND BALANCE	388,474	472,202	520,400	407,145
BUSINESS TAXES				
WATER RECEIPTS	2,080,000	2,000,000	1,950,470	2,072,175
WATER CONNECTIONS	20,000	52,000	20,000	67,500
FUND CONTRIBUTIONS	2,000	22,000	2,000	1,925
TIMBER SALES				
PWTF Loan - South WA	-	-	-	748,204
TOTAL REVENUES	2,102,000	2,074,000	1,972,470	2,889,804
OTHER RECEIPTS	3,000	3,000	3,000	29,963
TRANSFER IN FROM SINKING FUND 404				
TOTAL NON-REVENUES	3,000	3,000	3,000	29,963
TOTAL OTHER FINANCING SOURCES	-	-	-	-
TOTAL WATER REVENUE	2,493,474	2,549,202	2,495,870	3,326,912

2023 Budget

Water Fund

	2023 Budget	2022 Estimated	2022 Budget	2021 Actual
EXPENDITURES				
WATER FUND - 401				
ENGINEERING PROFESSIONAL SERV.	45,000	45,000	45,000	2,345
SALARIES	558,258	513,996	513,996	511,243
BENEFITS	350,375	341,519	341,519	301,110
OPERATING SUPPLIES	175,000	220,000	175,000	256,706
RADIO READ METERS	200,000	200,000	200,000	146,696
OFFICE SUPPLIES	2,000	2,000	2,000	123
ACCOUNTING SERVICES	13,500	13,500	13,500	6,102
PROFESSIONAL SERVICES	60,000	40,000	40,000	44,197
COMMUNICATIONS	7,500	7,500	7,500	6,928
TRAVEL	4,000	4,000	4,000	810
ADVERTISING	500	500	500	142
INSURANCE	75,754	53,824	60,603	55,093
UTILITIES	34,000	34,000	34,000	31,181
REPAIRS & MAINTENANCE	70,000	70,000	70,000	64,061
REFUNDS	5,000	5,000	5,000	1,740
EQUIPMENT	175,000	160,000	175,000	175,700
TRAINING	15,000	15,000	15,000	4,604
STATE EXCISE TAX	104,603	100,580	98,089	104,886
WATER LINE REPLACEMENT	10,000	25,000	25,000	23,092
SOUTH WA				800,328
TOTAL EXPENDITURES	1,905,491	1,851,419	1,825,707	2,537,087

2023 Budget

Water Fund

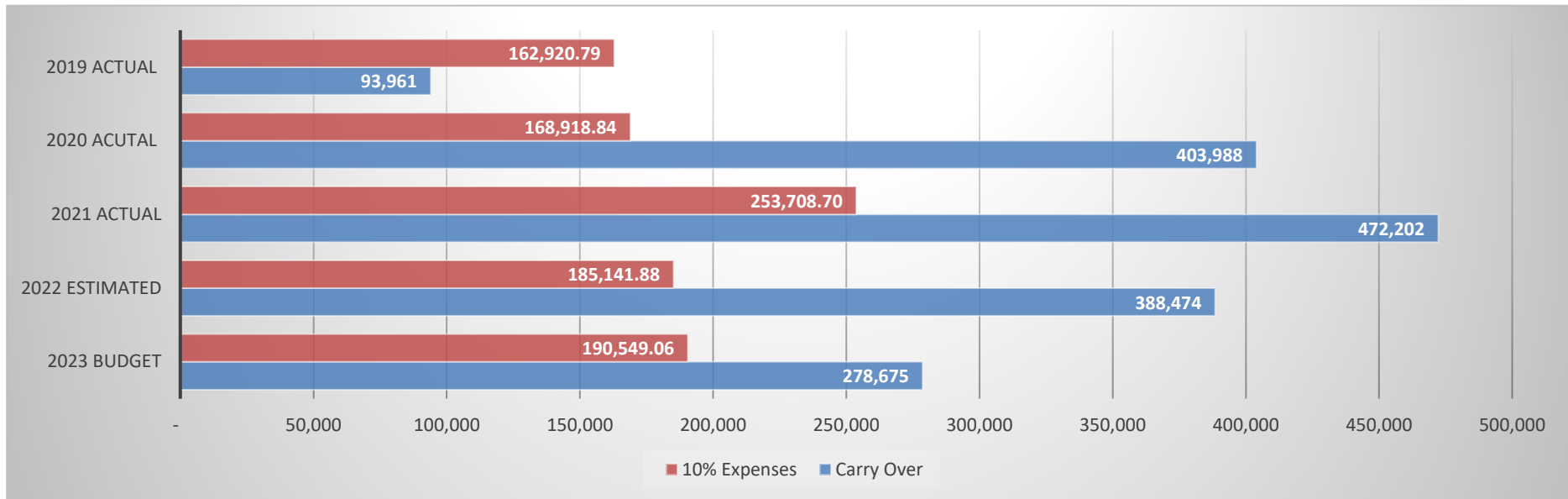
	2023 Budget	2022 Estimated	2022 Budget	2021 Actual
CONTRIBUTION WATER SINKING FUND	100,000	100,000	100,000	65,000
1985 BOND REDEMP. CONTRIB.				53,136
PWTF LOAN - DOHMAN DAM REPAIR				37,362
USDA RURAL LOAN	101,354	101,354	101,354	101,354
USDA BOND RESERVE	10,135	10,135	10,135	10,135
PWTF - MICRO FILTER PLANT	30,820	30,820	30,820	43,636
PWTF - SO WA	67,000	67,000	60,000	7,000
TOTAL OTHER FINANCING USES	309,309	309,309	302,309	317,623
				252,623
TOTAL WATER EXPENDITURES	2,214,800	2,160,728	2,128,016	2,854,710
Carry Over	278,675	388,474	367,854	472,202

2023 Budget

Water Fund

City of Long Beach			
WATER SINKING FUND -404			
	2023	2022	2021
DESCRIPTION	Budget	Estimate	Actual
Revenues			
BEGINNING FUND BALANCE	430,000	330,000	265,000
TOTAL BEGINNING FUND BALANCE	430,000	330,000	265,000
TOTAL REVENUES			
TRANSFER FROM 401 - WATER	100,000	100,000	65,000
TOTAL WATER SINKING	530,000	430,000	330,000
Expenditures			
WATER SINKING FUND			
TRANSFER TO 401 - WATER			
TOTAL NON EXPENDITURES			
FUTURE PROJECTS			
VAC TRUCK			
COMP PLAN CAPITAL EXPENDITURES			
TOTAL WATER SINKING EXPENDITURES	0.00	0.00	0.00
<i>Carry Over to next year</i>	530,000	430,000	330,000

2023 Budget Water Fund – Carry Over



2023 Budget

Water Fund – Loan Amortization Tables

	RD REVENUE BOND		PWTF LOAN		PWTF Loan		
	2.375% FIXED [Water Plant]		.05% FIXED [Water Plant Design]		South Washington PC20-96103-043		
Year	Principal	Interest	Principal	Interest	Principal	Interest	Total
2022	51,538	49,816	29,493	1,180	66,209	5,776	198,236.18
2023	52,705	48,649	29,493	1,032	66,209	8,891	206,979.71
2024	53,897	47,457	29,493	885	66,209	8,368	206,309.24
2025	55,117	46,237	29,493	737	66,209	7,845	205,638.78
2026	56,364	44,990	29,493	590	66,209	7,322	204,968.31
2027	57,639	43,715	29,493	442	66,209	6,799	204,297.84
2028	58,943	42,411	29,493	295	66,209	6,276	203,627.37
2029	60,277	41,077	29,493	147	66,209	5,753	202,956.84
2030	61,641	39,713			66,209	5,230	172,793.00
2031	63,035	38,319			66,209	4,707	172,270.00
2032	64,462	36,892			66,209	4,184	171,747.00
2033	65,920	35,434			66,209	3,661	171,224.00
2034	67,412	33,942			66,209	3,138	170,701.00
2035	68,937	32,417			66,209	2,615	170,178.00
2036	70,497	30,857			66,209	2,092	169,655.00
2037	72,092	29,262			66,209	1,569	169,131.96
2038	73,723	27,631			66,209	1,046	168,608.77
2039	75,391	25,963			66,209	523	168,086.00
TOTAL	2,663,000	1,388,813	562,650	31,570	1,197,369	86,255	5,929,656.07
<i>Total as of 1/2024</i>	2,122,334	763,661	176,961	3,097	1,059,344	71,128	4,196,524.41
PRIN & INT	101,354		30,526		75,100		
					206,979.71	2023 Payment	