

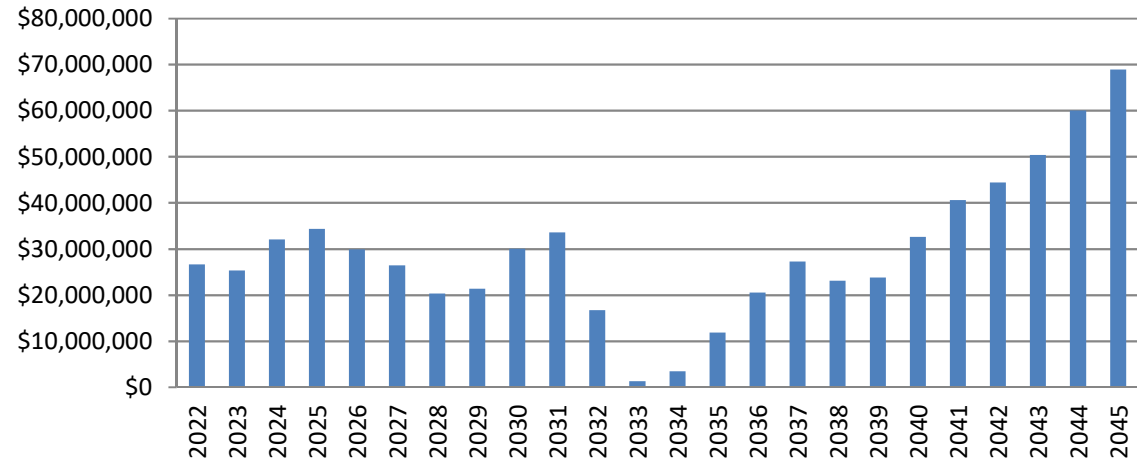
# HARBOR & BEACHES MASTER PLAN DASHBOARD

With external contributions (grants) as indicated on project list

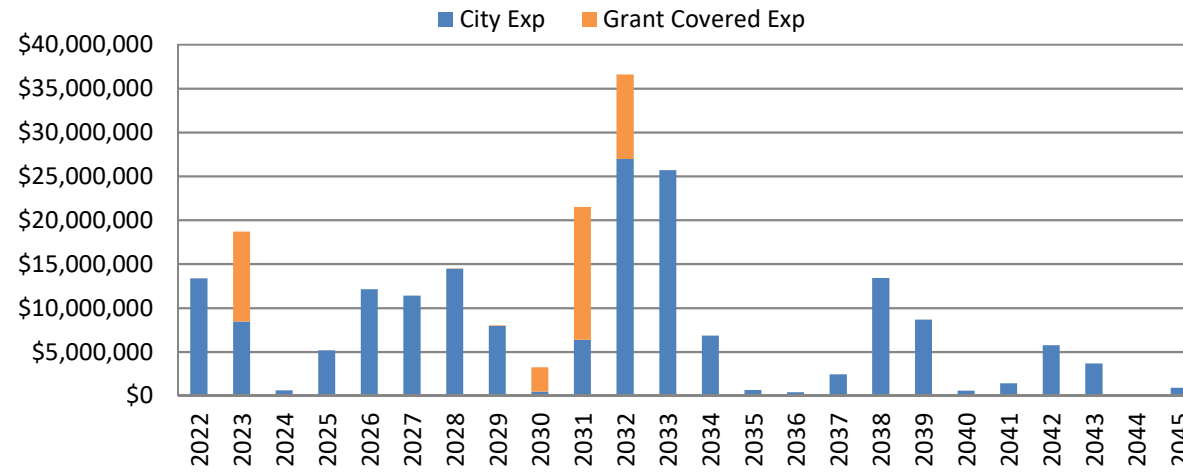
TRUE

Updated: 02/01/2022

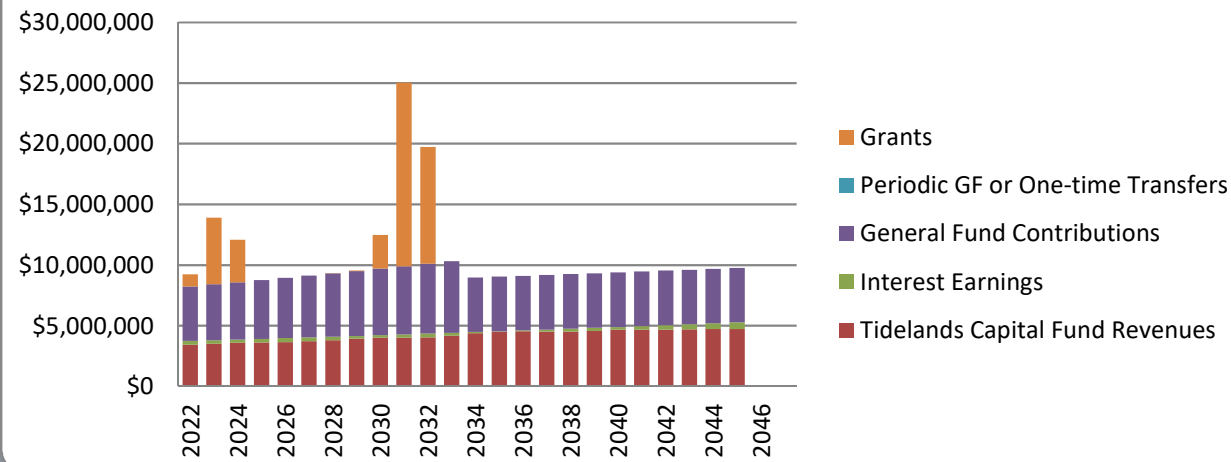
### Harbor and Beaches Master Plan Funding Balance



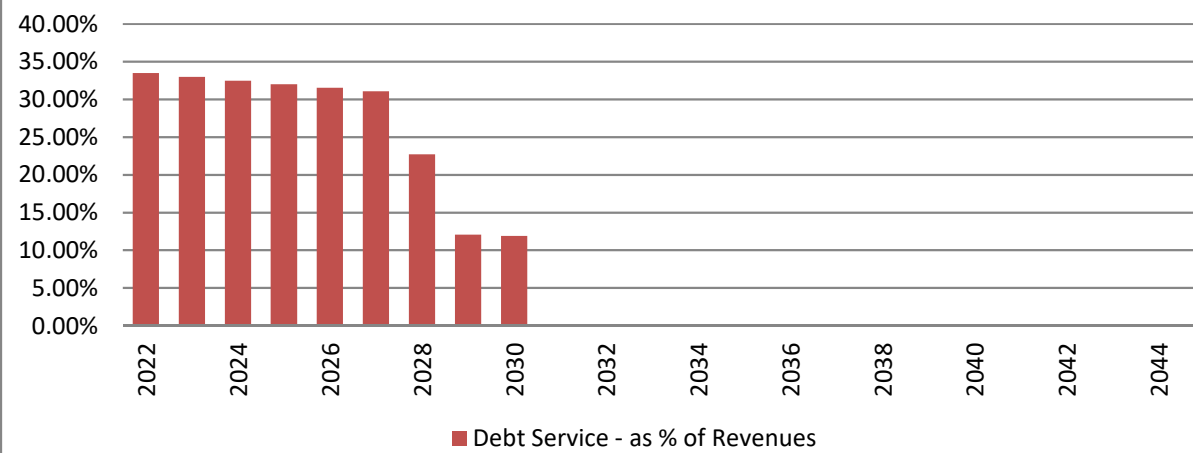
### Project Expenditures



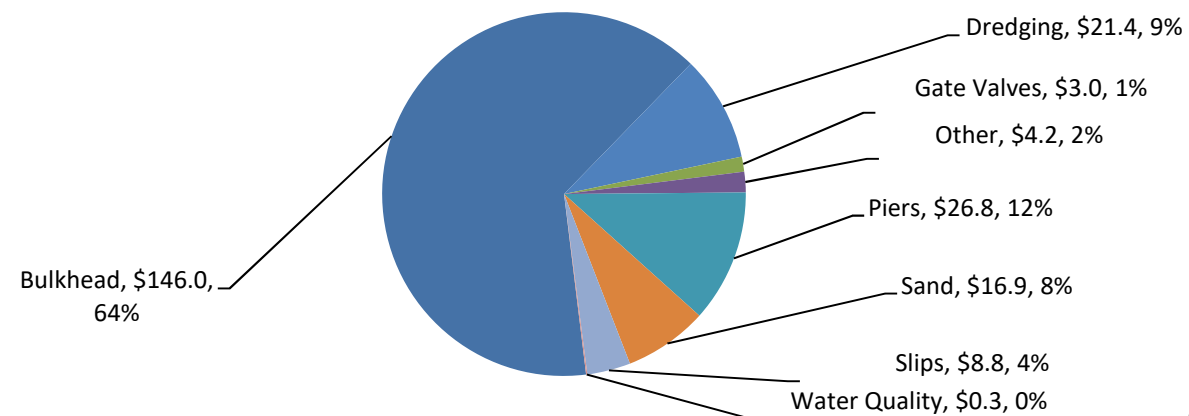
### All Estimated Revenue Sources



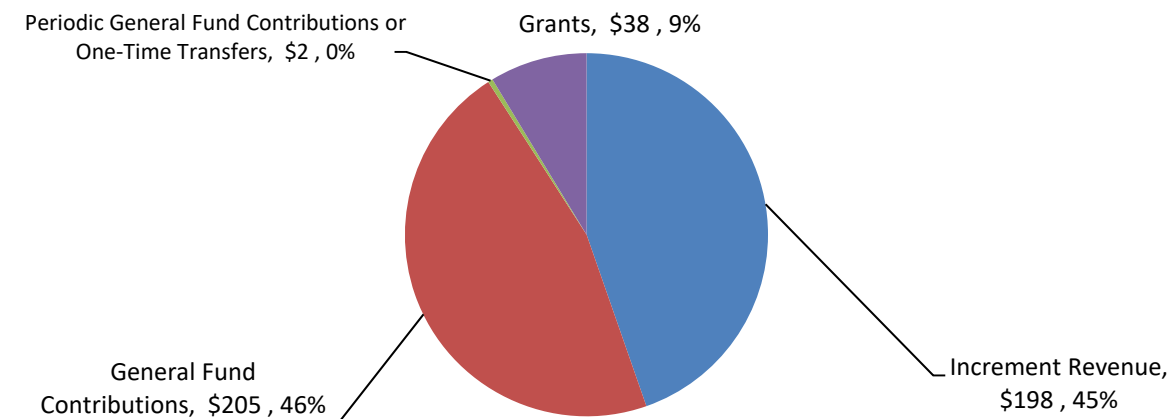
### Debt Service as % of Dedicated Revenues



### Expenditures by Type (millions)



### Revenues by Type (millions)



1

2

3

4

5

6

# HARBOR & BEACHES MASTER PLAN PROJECTS

Last Updated: 02/01/2022

2022

Ref #	Project	Category	Units		Today's Unit			Project Estimate	FY Design Start	FY Const Start	FV Cost Est @2.5%	External Contributions	Net Proposed Cost
			Measurement	Total Units	Cost	Current Age:	Useful Life		Year	Year	Growth		
<b>UTILITIES</b>													
19	Tide Gate Valves (Balboa Island): Replace (34 total)	Gate Valves	EA	15	\$50,000	**	25	\$750,000	2022	2025	\$807,668		\$807,668
32	Tide Gate Valves (Peninsula): Replace	Gate Valves	EA	39	\$50,000	**	25	\$1,950,000	2022	2026	\$2,152,435		\$2,152,435
<b>SUBTOTAL</b>								<b>\$2,700,000</b>			<b>\$2,960,103</b>	<b>\$0</b>	<b>\$2,960,103</b>
<b>BULKHEAD/STRUCTURES</b>													
8	Bulkhead (American Legion): Repair	Bulkhead	LF	1	\$1,700,000	65	40	\$1,700,000	2019	2021	\$1,742,500		\$1,742,500
39	Lower Castaways: Bulkhead Only	Bulkhead	LF	265	\$3,800	**	80	\$1,007,000	2024	2026	\$1,111,540		\$1,111,540
41	Balboa Island, N, S, E & GC: Boardwalk & Perimeter Drainage System only (Little Island not include ~42k SF)	Other	SF	92,000	\$25	**	80	\$2,300,000	2024	2026	\$2,538,770		\$2,538,770
45	Balboa Island, N, S, E & GC: Replace Seawall SBF	Bulkhead	LF	4,386	\$3,800	92	81	\$16,667,666	2026	2031	\$20,815,631		\$20,815,631
46	Balboa Island, N, S, E & GC: Replace Seawall GC and EBF	Bulkhead	LF	4,386	\$3,800	92	80	\$16,667,666	2026	2031	\$20,815,631		\$20,815,631
47	Balboa Island, N, S, E & GC: Replace Seawall NBF	Bulkhead	LF	4,386	\$3,800	92	82	\$16,667,666	2026	2037	\$24,139,751		\$24,139,751
61	Bulkhead (American Legion): Replace	Bulkhead	LF	336	\$3,800	65	80	\$1,276,800	2051	2070	\$4,177,038		\$4,177,038
65	Bulkhead (West Newport): Replace	Bulkhead	LF	1,722	\$3,800	**	80	\$6,543,600	2038	2041	\$10,460,927		\$10,460,927
66	Bulkhead (Corona Del Mar): Replace	Bulkhead	LF	175	\$3,800	**	80	\$665,000	2042	2045	\$1,173,466		\$1,173,466
67	Bulkhead (Promontory Bay): Replace	Bulkhead	LF	1,158	\$3,800	57	80	\$4,400,400	2042	2045	\$7,764,993		\$7,764,993
69	Bulkhead (Rhine Wharf): Replace	Bulkhead	LF	343	\$3,800	62	80	\$1,303,400	2046	2049	\$2,538,763		\$2,538,763
71	Bulkhead (Street Ends - Peninsula): Replace	Bulkhead	LF	2,217	\$3,800	**	80	\$8,424,600	2053	2056	\$19,505,663		\$19,505,663
27	Bulkhead (Balboa Yacht Basin): Replace	Bulkhead	LF	1,370	\$3,800	37	80	\$5,206,000	2063	2065	\$15,053,254		\$15,053,254
37	Bulkhead (Marina Park): Replace	Bulkhead	LF	857	\$3,800	7	80	\$3,256,600	2093	2095	\$19,751,796		\$19,751,796
<b>SUBTOTAL</b>								<b>\$86,086,399</b>			<b>\$151,589,722</b>	<b>\$0</b>	<b>\$151,589,722</b>
<b>PUBLIC PIERS - REPAIR / REPLACE</b>													
11	Public Pier (15th St): Float only	Piers	EA	1	\$50,000	**	20	\$50,000	2021	2022	\$51,250		\$51,250
12	Public Pier (19th St): Gangway & Float	Piers	EA	1	\$75,000	**	20	\$75,000	2021	2022	\$76,875		\$76,875
13	Public Pier (Coral Ave): Gangway & Float	Piers	EA	1	\$75,000	37	20	\$75,000	2021	2022	\$76,875		\$76,875
14	Public Pier (Fernando St): Gangway & Float	Piers	EA	1	\$75,000	**	20	\$75,000	2021	2022	\$76,875		\$76,875
15	Public Pier (M St): Gangway & Float	Piers	EA	1	\$100,000	**	20	\$100,000	2021	2022	\$102,500		\$102,500
16	Public Pier (Opal Ave): Gangway & Float	Piers	EA	1	\$75,000	**	20	\$75,000	2021	2022	\$76,875		\$76,875
17	Public Pier (Park Ave): Gangway & Float	Piers	EA	1	\$75,000	**	20	\$75,000	2021	2022	\$76,875		\$76,875
18	Public Pier (Washington St): Gangway & Float	Piers	EA	1	\$75,000	**	20	\$75,000	2021	2022	\$76,875		\$76,875
21	Balboa Yacht Basin Major Dock Maintenance	Slips	EA	1	150,000	37	40	\$150,000	2021	2022	\$153,750		\$153,750
28	Ocean Piers Maintenance (Balboa and Newport)	Piers	EA	1	500,000	**	0	\$500,000	2021	2022	\$512,500		\$512,500
29	Public Pier (29th St): Gangway & Float	Piers	EA	1	\$100,000	**	20	\$100,000	2021	2022	\$102,500		\$102,500
30	Public Pier (Emerald Ave): Gangway & Float	Piers	EA	1	\$75,000	36	20	\$75,000	2021	2022	\$76,875		\$76,875
31	Public Pier (Sapphire Ave): Gangway & Float	Piers	EA	1	\$75,000	**	20	\$75,000	2021	2022	\$76,875		\$76,875
42	Balboa Yacht Basin Marina (Slips): Replace	Slips	Slips	172	\$35,000	37	40	\$6,020,000	2022	2024	\$6,324,763		\$6,324,763
52	Public Pier (15th St): Pier & Gangway	Piers	EA	1	\$115,000	**	20	\$115,000	2031	2034	\$154,662		\$154,662
53	Public Pier (Coral Ave): Pier only	Piers	EA	1	\$75,000	37	20	\$75,000	2031	2034	\$100,867		\$100,867
54	Public Pier (Emerald Ave): Pier only	Piers	EA	1	\$75,000	36	20	\$75,000	2031	2034	\$100,867		\$100,867
55	Public Pier (Fernando St): Pier only	Piers	EA	1	\$75,000	**	20	\$75,000	2031	2034	\$100,867		\$100,867
56	Public Pier (M St): Pier only	Piers	EA	1	\$100,000	37	20	\$100,000	2031	2034	\$134,489		\$134,489
57	Public Pier (Opal Ave): Pier only	Piers	EA	1	\$115,000	**	20	\$115,000	2031	2034	\$154,662		\$154,662
58	Public Pier (Park Ave): Pier only	Piers	EA	1	\$115,000	**	20	\$115,000	2031	2034	\$154,662		\$154,662
59	Public Pier (Sapphire Ave): Pier only	Piers	EA	1	\$115,000	**	20	\$115,000	2031	2034	\$154,662		\$154,662
60	Public Pier (Washington St): Pier only	Piers	EA	1	\$75,000	**	20	\$75,000	2031	2034	\$100,867		\$100,867
62	Public Pier (Rhine Channel): Float only	Piers	EA	1	\$175,000	15	30	\$175,000	2034	2037	\$253,452		\$253,452
64	Public Pier (Grand Canal, Balboa Ave): Pier Platform	Piers	EA	1	\$15,000	5	20	\$15,000	2037	2038	\$22,268		\$22,268
68	Public Pier (Rhine Channel): Gangway only	Piers	EA	1	\$60,000	**	40	\$60,000	2044	2047	\$111,237		\$111,237
70	Marina Park Slips: Replace	Slips	EA	23	\$40,000	7	40	\$920,000	2052	2055	\$2,078,143		\$2,078,143
72	Public Pier (Balboa Marina West): Float only	Piers	EA	1	\$200,000	1	40	\$200,000	2059	2062	\$537,013		\$537,013
73	Public Pier (Balboa Marina West): Gangway	Piers	EA	1	\$50,000	1	40	\$50,000	2059	2062	\$134,253		\$134,253
26	Public Pier (Central Ave): Gangway and Float	Piers	EA	1	\$250,000	5	40	\$250,000	2055	2057	\$593,301		\$593,301
10	Ocean Pier: Newport	Piers	EA	1	\$20,000,000	82	85	\$20,000,000	2025	2027	\$22,628,164		\$22,628,164
23	Ocean Pier: Balboa	Piers	EA	1	\$15,000,000	82	85	\$15,000,000	2030	2032	\$19,201,268		\$19,201,268
<b>SUBTOTAL</b>								<b>\$45,050,000</b>			<b>\$54,577,966</b>	<b>\$0</b>	<b>\$54,577,966</b>
<b>DREDGING</b>													
2	Grand Canal Dredging and Beach Maintenance	Dredging	CY	1	\$1,500,000	**	20	\$1,500,000	2037	2039	\$2,282,427		\$2,282,427
9	Dredging: Lower Bay (Channels - Ongoing Maintenance)	Dredging	CY	1,200,000	\$19	**	30	\$22,800,000	2019	2022	\$23,370,000	\$10,000,000	\$13,370,000

Ref #	Project	Category	Units		Today's Unit			Project Estimate	FY Design Start	FY Const Start	FV Cost Est @2.5%	External	
			Measurement	Total Units	Cost	Current Age:	Useful Life		Year	Year	Growth	Contributions	Net Proposed Cost
25	Dredging: Newport Island Area (Channels) - TBD	Dredging	CY	20,000	\$150	**	50	\$3,000,000	2028	2030	\$3,655,209		\$3,655,209
43	Dredging (Balboa Yacht Basin):	Dredging	CY	25,600	\$70	37	40	\$1,792,000	2022	2024	\$1,882,720		\$1,882,720
48	Dredging: Upper Bay Catch Basins	Dredging	CY	500,000	\$30	13	21	\$15,000,000	2027	2030	\$18,276,043	\$18,276,043	\$0
49	Dredging: Upper Bay Channels	Dredging	CY	250,000	\$30	13	21	\$7,500,000	2027	2030	\$9,138,022	\$9,138,022	\$0
<b>SUBTOTAL</b>								<b>\$51,592,000</b>			<b>\$58,604,421</b>	<b>\$37,414,065</b>	<b>\$21,190,356</b>
<b>FERRY &amp; WHARF REPAIR / REPLACE</b>													
35	Ferry Landing - Agate Avenue	Bulkhead	EA	1	\$0	92	60	\$0	2023	2025	\$0		\$0
36	Ferry Landing - Palm Street	Bulkhead	EA	1	\$0	92	60	\$0	2023	2025	\$0		\$0
<b>SUBTOTAL</b>								<b>\$0</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>WATER QUALITY</b>													
20	Water Quality: TMDL Compliance:	Water Quality	LS	1	\$200,000	**	Ongoing	\$200,000	2022	2028	\$231,939		\$231,939
33	Vessel Sewage Pumpouts Replacements	Water Quality	EA	5	\$21,255	**	7	\$106,275	2027	2028	\$123,246	\$102,031	\$21,215
<b>SUBTOTAL</b>								<b>\$306,275</b>			<b>\$355,185</b>	<b>\$102,031</b>	<b>\$253,154</b>
<b>BEACH NOURISHMENT - HARBOR &amp; OCEAN</b>													
22	Central Peninsula Sand Nourishment (Ocean Beach)	Sand	CY	1,000,000	\$15	1	20	\$15,000,000	2022	2025	\$16,153,359		\$16,153,359
44	Surfside/Sunset Beach Sand Nourishment Stage 14	Sand	LS	1	\$300,000	5	7	\$300,000	2027	2029	\$356,606		\$356,606
51	Public Bay Beaches: Sand Nourishment (25k yards)	Other	CY	25,000	\$50	6	25	\$1,250,000	2028	2031	\$1,561,079		\$1,561,079
<b>SUBTOTAL</b>								<b>\$16,550,000</b>			<b>\$18,071,044</b>	<b>\$0</b>	<b>\$18,071,044</b>
<b>MISCELLANEOUS</b>													
4	Navigation Markers: Convert Federal Stationary Markers to Floats	Other	LS	1	\$60,000	**	0	\$60,000	2030	2030	\$73,104	\$74,932	(\$1,828)
<b>SUBTOTAL</b>								<b>\$60,000</b>			<b>\$73,104</b>	<b>\$74,932</b>	<b>(\$1,828)</b>
<b>GRAND TOTAL</b>								<b>\$202,344,674</b>			<b>\$286,231,545</b>	<b>\$37,591,028</b>	<b>\$248,640,517</b>
<b>POTENTIAL PROJECTS</b>													
	Onshore Mooring Enhancements	Moorings						\$0			\$0		\$0
	Multiple Vessel Mooring System (MVMS) - City Owned	Moorings	EA	6	\$45,000	**	20	\$270,000	2023	2023	\$270,000		\$270,000
	Mooring Field Realignment	Moorings	EA	800	\$200	0	0	\$160,000	2022	2025	\$172,303		\$172,303
<b>TOTAL</b>					<b>\$45,200</b>			<b>\$430,000</b>			<b>\$442,303</b>	<b>\$0</b>	<b>\$442,303</b>

\*\* denotes "unknown".

# HARBOR & BEACHES MASTER PLAN SOURCES AND USES PROFORMA

	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>AFFORDABILITY ASSUMPTIONS</b>									
Tidelands Capital Fund Revenues	3,736,094	3,792,136	3,849,018	3,906,753	3,965,354	4,024,835	4,085,207	4,146,485	4,208,682
Growth Assumption	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Debt Service as % of Revenues	33.46%	32.96%	32.48%	32.00%	31.52%	31.06%	22.68%	12.06%	11.88%
Harbor Capital Balance as % of Debt Service	2130.44%	2026.84%	2562.39%	2748.63%	2393.44%	2111.47%	2189.80%	4267.67%	6011.94%
<b>HARBOR CAPITAL SOURCES</b>									
<b>BUDGETED</b>									
Beginning Harbor Capital Balance	33,004,996	26,630,505	25,335,544	32,029,898	34,357,937	29,917,942	26,393,429	20,292,025	21,338,362
<b>Sources</b>									
Increment Revenue Projections	3,435,842	3,493,958	3,589,187	3,619,926	3,633,415	3,703,455	3,803,650	3,913,058	4,000,531
Interest Earnings	300,253	298,178	259,830	286,827	331,939	321,379	281,557	233,427	208,152
General Fund Contributions	4,500,000	4,612,500	4,727,813	4,846,008	4,967,158	5,091,337	5,218,620	5,349,086	5,482,813
Periodic GF or One-time Transfers	-	-	-	-	-	-	-	-	-
Grants	1,000,000	5,500,000	3,500,000	-	-	-	10,203	56,117	2,784,611
<b>Total Sources (does not include grants):</b>	<b>8,236,094</b>	<b>8,404,636</b>	<b>8,576,830</b>	<b>8,752,761</b>	<b>8,932,512</b>	<b>9,116,171</b>	<b>9,303,827</b>	<b>9,495,571</b>	<b>9,691,495</b>
<b>Uses</b>									
Debt Service	(1,250,000)	(1,250,000)	(1,250,000)	(1,250,000)	(1,250,000)	(1,250,000)	(926,659)	(500,000)	(500,000)
Other Fiscal Charges	-	-	-	-	-	-	-	-	-
Project Uses	(13,360,585)	(8,449,597)	(632,476)	(5,174,722)	(12,122,506)	(11,390,685)	(14,478,572)	(7,949,234)	(470,158)
Transfers Out	-	-	-	-	-	-	-	-	-
Less: Cash Proj Funding	-	-	-	-	-	-	-	-	-
<b>Total Uses:</b>	<b>(14,610,585)</b>	<b>(9,699,597)</b>	<b>(1,882,476)</b>	<b>(6,424,722)</b>	<b>(13,372,506)</b>	<b>(12,640,685)</b>	<b>(15,405,231)</b>	<b>(8,449,234)</b>	<b>(970,158)</b>
<b>Projected Harbor Capital Balance</b>	<b>26,630,505</b>	<b>25,335,544</b>	<b>32,029,898</b>	<b>34,357,937</b>	<b>29,917,942</b>	<b>26,393,429</b>	<b>20,292,025</b>	<b>21,338,362</b>	<b>30,059,699</b>