

**Clear Lake City Water Authority**  
**Capital Improvement Plan and Rehabilitation Needs 2023 - 2028**  
**As of 02/04/22**

PROJECT #	DEPARTMENT	PURPOSE CODE	CAPITAL IMPROVEMENT PLAN - PROJECT NEEDS RATING CRITERIA	YEAR PLANNED	CONSTRUCTION AMOUNT IN 2021									
					\$'s	BI 42	2023	BI 43	2024	BI 44 2025	BI 45 2026	BI 46	2027	BI 47
		1	Projects needed to prevent Imminent Failure		\$5,098,490	\$763,947	\$801,519	\$842,431	\$868,956	\$896,495	\$925,144	\$	\$ 5,098,490.13	
		2	Projects needed to prevent Flooding Damage		\$16,672,307	\$2,627,977	\$2,564,860	\$2,695,779	\$2,954,449	\$2,868,783	\$2,960,460	\$	\$ 16,672,306.75	
		3	Projects needed to meet new Regulations or Permit Parameters		\$152,789	\$152,789	\$0	\$0	\$0	\$0	\$0	\$0	\$ 152,789.34	
		4	Projects needed to meet Projected Buildout		\$5,976,590	\$0	\$0	\$3,369,723	\$2,606,867	\$0	\$0	\$	\$ 5,976,590.12	
		5	Projects needed to replace equipment, coatings etc which is at the End of its Useful Life		\$68,195,036	\$17,821,776	\$19,427,393	\$6,889,876	\$10,987,368	\$6,290,404	\$6,778,219	\$	\$ 68,195,035.77	
		6	Projects needed to reduce Inflow & Infiltration into the Sanitary Sewer System		\$25,492,451	\$3,819,734	\$4,007,593	\$4,212,154	\$4,344,778	\$4,482,473	\$4,625,718	\$	\$ 25,492,450.64	
		7	Projects will improve operational efficiencies, performance or system resilience		\$16,511,065	\$0	\$4,248,049	\$8,677,037	\$0	\$3,585,979	\$0	\$	\$ 16,511,064.80	
					\$138,098,728	\$ 25,186,222.16	\$ 31,049,413.58	\$ 26,687,000.18	\$ 21,762,417.64	\$ 18,124,133.46	\$ 15,289,540.54	\$	\$ 138,098,727.56	
2	drainage/storm	2	Drainage Improvements		\$6,000,000	\$1,527,893	\$1,603,037	\$1,684,862	\$1,737,911	\$1,792,989	\$1,850,287	\$	\$ 10,196,980.26	
3	drainage/storm	2	Storm Sewer Rehabilitation		\$3,000,000	\$763,947	\$801,519	\$842,431	\$868,956	\$896,495	\$925,144	\$	\$ 5,098,490.13	
4	drainage/storm	2	Exploration Green Pond Rehab		\$600,000	\$152,789	\$160,304	\$168,486	\$173,791	\$179,299	\$185,029	\$	\$ 1,019,698.03	
<b>DRAINAGE/STORM SEWER TOTAL</b>												<b>\$ 16,315,168.41</b>		
5	lift station	2	Lift Station 22 - Rehab for Flood Mitigation	Need in 2023	\$120,000	\$183,347							\$ 183,347.21	
6	lift station	2	Lift Station 28 - Add fence, raise MCC, increase Wet Well capacity	Need in 2026	\$100,000				\$173,791				\$ 173,791.13	
7	lift station	3	Lift Station 10 - Access Issue, needs Fence	Need in 2023	\$100,000	\$152,789							\$ 152,789.34	
8	lift station	5	Lift Station 20 - Recoat Wet Well, Yard Piping, Replace Riser Pipes	Need in 2023	\$100,000	\$152,789							\$ 152,789.34	
9	lift station	5	Lift Station 21 - Replace Riser Pipes	Need in 2023	\$50,000	\$76,395							\$ 76,394.67	
10	lift station	5	Lift Station 24 - Recoat Wet Well, Yard Piping, Replace Riser Pipes	Need in 2023	\$100,000	\$152,789							\$ 152,789.34	
11	lift station	5	Lift Station 14 - Recoat Wet Well, Yard Piping, Replace Riser Pipes	Need in 2023	\$100,000	\$152,789							\$ 152,789.34	
12	lift station	5	Lift Station 8 - Recoat Wet Well, Yard Piping, Replace Risers	Need in 2027	\$100,000				\$179,299				\$ 179,298.93	
13	lift station	5	Lift Station 3 - Recoat Wet Well, Yard Piping, Replace Riser Pipes	Need in 2028	\$100,000						\$185,029		\$ 185,028.73	
14	lift station	5	Lift Station 15 - Recoat Wet Well, Valves and Yard piping	Need in 2028	\$90,000						\$166,526		\$ 166,525.85	
37	lift station	5, 7	Lift Station 2 - New Discharge Piping, Recoat Wet Well	Need in 2025	\$100,000			\$168,486					\$ 168,486.16	
<b>LIFT STATION TOTAL</b>												<b>\$ 1,744,030.07</b>		
38	sanitary sewer	6	Sanitary Sewer Rehabilitation and Improvements		\$15,000,000	\$3,819,734	\$4,007,593	\$4,212,154	\$4,344,778	\$4,482,473	\$4,625,718	\$	\$ 25,492,450.64	
<b>SANITARY SEWER TOTAL</b>												<b>\$ 25,492,450.64</b>		
9	wastewater	4, 7	Final Effluent Clarifier	Need in 2025	\$2,000,000			\$3,369,723					\$ 3,369,723.19	
10	wastewater	5	Blower Replacement	Replace '23, '24, '25	\$900,000	\$458,368	\$480,911	\$505,458					\$ 1,444,737.72	
11	wastewater	5	Admin Building & Lab Replacement, Access During Floods	Need in 2024	\$4,000,000		\$6,412,149						\$ 6,412,149.43	
12	wastewater	5	Filter Replacement with Disk Filters	Need in 2026	\$4,150,000				\$7,212,332				\$ 7,212,331.83	
36	wastewater	5, 7	WWTP Lift Station Improvements - Pre-Scening, Lift Station & Odor Control	Need in 2023	\$6,670,000	\$10,191,049							\$ 10,191,049.31	
39	wastewater	7	Final Effluent Pump Station (to eliminate Transfer LS)	Need in 2024	\$2,650,000		\$4,248,049						\$ 4,248,049.00	
40	wastewater	7	Lift Station 4 Improvements	Need in 2025	\$750,000			\$1,263,646					\$ 1,263,646.20	
41	wastewater	7	Lift Station 4 - Parallel Force Main line under Mud Lake	Need in 2025	\$2,000,000			\$3,369,723					\$ 3,369,723.19	
42	wastewater	7	New UV Channels	Need in 2025	\$2,400,000			\$4,043,668					\$ 4,043,667.83	
43	wastewater	7	Aeration Basin Process Optimization	Need in 2027	\$2,000,000					\$3,585,979			\$ 3,585,978.59	
<b>WASTEWATER TOTAL</b>												<b>\$ 45,141,056.28</b>		
1	water	1,5	Water System Rehabilitation		\$3,000,000	\$763,947	\$801,519	\$842,431	\$868,956	\$896,495	\$925,144	\$	\$ 5,098,490.13	
8	water	4	WP 4 - New GST #2 & Piping	Need in 2026	\$1,500,000				\$2,606,867				\$ 2,606,866.92	
10	water	5	Water Phase 13: 20" WL from El Dorado to Pineloch (1977 - 44 years)	Need in 2023	\$2,030,000	\$3,101,624							\$ 3,101,623.70	
11	water	5	EST 4 - Recoating	Need in 2023	\$500,000	\$763,947							\$ 763,946.72	
12	water	5	24" Water Main Replacement: N. Meter Station to WP 4 (1991 - 30 years)	Need in 2024	\$3,270,000		\$5,241,932						\$ 5,241,932.16	
13	water	5	EST 1 - Recoating	Need in 2024	\$500,000		\$801,519						\$ 801,518.68	
14	water	5	Water Plant 3 - Recoating	Need in 2024	\$300,000		\$480,911						\$ 480,911.21	
15	water	5	Water Plant 1 - Recoating Interior & Exterior GST 1 & 2	Need in 2025	\$300,000			\$505,458					\$ 505,458.48	
16	water	5	EST 5 - Recoating	Need in 2025	\$500,000			\$842,431					\$ 842,430.80	
17	water	5	EST 2 - Recoating	Need in 2026	\$500,000				\$868,956				\$ 868,955.64	
18	water	5	Water Plant 3 - Replace Booster Pump Bldg	Need in 2026	\$200,000				\$347,582				\$ 347,582.26	
19	water	5	WP 4 - Recoating GST	Need in 2026	\$458,835				\$797,415				\$ 797,414.52	
20	water	5	WP 4 - Replace Ex. 16" Fill Valve and add new Valve	Need in 2026	\$160,000				\$278,066				\$ 278,065.81	
21	water	5	WP 4 - Replace 3,000 gpm Booster Pump & Motor	Need in 2026	\$20,000				\$34,758				\$ 34,758.23	
22	water	5	24" Water Main Replacement: WP 3 to WP 1 (1975 - 46 years)	Need in 2027	\$2,575,000					\$4,616,947			\$ 4,616,947.44	
23	water	5	16" Water Main Replacement along Space Center: JSC to El Dorado (67 & '69, 54 - 56 yrs)	Need in 2028	\$2,640,000						\$4,884,758		\$ 4,884,758.41	
24	water	5	SEWPP Capital Improvements and Rehabilitation		\$8,000,000	\$2,546,489	\$2,671,729	\$1,404,051	\$1,448,259	\$1,494,158	\$1,541,906	\$	\$ 11,106,592.55	
25	water	5	SE Transmission Water Line		\$5,143,212	\$225,536	\$3,338,241	\$3,463,991					\$ 7,027,768.50	
<b>WATER TOTAL</b>												<b>\$ 49,406,022.16</b>		
<b>ANNUAL BIR INFLATION VALUES (5% per year from 2022-2025 and 3% per year from 2026-2028)</b>					<b>\$84,777,047</b>	<b>\$25,186,222</b>	<b>\$31,049,414</b>	<b>\$26,687,000</b>	<b>\$21,762,418</b>	<b>\$18,124,133</b>	<b>\$15,289,541</b>	<b>\$</b>	<b>\$138,098,728</b>	