

Newport MUD - Capital Improvement Plan

LAN Job No. 120-12151-000-100

As of 8/1/24, CIP in 2023\$

Item	Projected Year when Funds will be needed						Total Needs 2025 to 2030	Unfunded Balance in 2026	Total Needs 2027 to 2030	Total Needs 2026 to 2030	Rounded
	2025	2026	2027	2028	2029	2030					
DISTRICT IMPROVEMENTS & REHABILITATION											
1	Surface Water Plant	\$3,277,000	\$0	\$3,115,000	\$0	\$0	\$476,000	\$6,868,000		\$3,591,000	
2	Ground Water Plants	\$2,485,000	\$0	\$864,000	\$0	\$0	\$206,000	\$3,555,000		\$1,070,000	
3	Water Distribution System	\$274,000	\$1,438,000	\$1,352,000	\$1,574,000	\$2,407,000	\$1,503,000	\$8,548,000		\$6,836,000	
4	Sanitary Sewer System	\$1,038,000	\$1,164,000	\$1,293,000	\$1,308,000	\$1,285,000	\$1,349,000	\$7,437,000		\$5,235,000	
5	Lift Station & Force Mains	\$583,000	\$134,000	\$355,000	\$0	\$159,000	\$151,000	\$1,382,000		\$665,000	
6	Wastewater Treatment Plant	\$0	\$6,580,000	\$19,618,000	\$26,905,000	\$0	\$4,561,000	\$57,664,000		\$51,084,000	
7	Detention Ponds	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
8	Administration Building	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
9	Water Line Ext. Phase 1 to serve Compass Tr Defined Area	\$210,000						\$210,000			
10	Water Line Ext. Phase 2 to serve Compass Tr Defined Area	\$298,000						\$298,000			
11	Force Main Phase 1 to serve Compass Tr Defined Area	\$519,000						\$519,000			
12	Force Main Phase 2 to serve Compass Tr Defined Area	\$1,059,000						\$1,059,000			
13	Lift Station to serve Compass Tr. Defined Area	\$949,000						\$949,000			
	DISTRICT IMPROVEMENTS & REHABILITATION TOTAL	\$10,692,000	\$9,316,000	\$26,597,000	\$29,787,000	\$3,851,000	\$8,246,000	\$88,489,000		\$68,481,000	
INFRASTRUCTURE EXPANSION											
1	Newport Section 4, PR 4 (DH Builders)	\$243,000						\$243,000			
	INFRASTRUCTURE EXPANSION ITEMS TOTALS	\$243,000	\$0	\$0	\$0	\$0	\$0	\$243,000			
Contingencies											
1	Contingencies (10% of District Construction Costs)	\$1,069,200	\$931,600	\$2,659,700	\$2,978,700	\$385,100	\$824,600	\$8,848,900		\$6,848,100	
	Contingencies Total	\$1,069,200	\$931,600	\$2,659,700	\$2,978,700	\$385,100	\$824,600	\$8,848,900		\$6,848,100	
Engineering											
1	Developer Engineering										
2	Engineering & Surveying (22% of Construction Costs)	\$2,352,240	\$2,049,520	\$5,851,340	\$6,553,140	\$847,220	\$1,814,120	\$19,467,580		\$15,065,820	
	Engineering Total	\$2,352,240	\$2,049,520	\$5,851,340	\$6,553,140	\$847,220	\$1,814,120	\$19,467,580		\$15,065,820	
	CONSTRUCTION COSTS	\$14,356,440	\$12,297,120	\$35,108,040	\$39,318,840	\$5,083,320	\$10,884,720	\$117,048,480	\$3,040,560	\$90,394,920	\$93,435,480
	NON-CONSTRUCTION COSTS (Normally 15 % of Total BIR)	\$2,533,489	\$2,170,080	\$6,195,536	\$6,938,619	\$897,056	\$1,920,833	\$20,655,613	\$536,569	\$15,952,044	\$16,488,613
	TOTAL BOND ISSUE AMOUNT	\$16,889,929	\$14,467,200	\$41,303,576	\$46,257,459	\$5,980,376	\$12,805,553	\$137,704,093	\$3,577,130	\$106,346,964	\$109,924,094
WSD Bond Capacity											
	Previous WSD Bond Capacity	\$27,780,000	\$10,890,070	\$106,422,870	\$65,119,294	\$18,861,835	\$12,881,459				
	Proposed Bond Issues during the year	\$16,889,929	\$14,467,200	\$41,303,576	\$46,257,459	\$5,980,376	\$12,805,553				
	Remaining WSD Bond Capacity Balance	\$10,890,070	-\$3,577,130	\$65,119,294	\$18,861,835	\$12,881,459	\$75,906				
	2024 Bond Authorization Amount	\$0	\$110,000,000	\$0	\$0	\$0	\$0				

Newport MUD			Completed																														
Surface Water Treatment Plant			No longer applicable																														
As of 8/1/24			Desired but not required for plant function																														
												Bond Authorization Prior to 2020				Bond Funds from 2020 Bond Election				Year Anticipated													
												Bond Issue #4	Bond Issue #5	Bond Issue #6	Surplus	Funds		Bond Issue #7	Bond Issue #8														
												\$5.5M	\$4.225M	\$7.5M				\$20.84M	\$12.43M														
No.	Project	Description of Problem, Project and Information	Justification	When Needed (years)	Cost (2019\$)	Cost (2022\$)	Cost (2023\$)	LAN Project Number	Status (as of 8/1/24)	Bid Amount	Operations Funds 2020		2016	2018	2019	Funds	Needed	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030					
Projects required to prevent imminent failure																																	
1	Rehabilitate Tonka Clarifier	It is believed that the Scraper Arm is out of alignment and is rubbing holes in the center column near bottom of the clarifier. A portion of the aeration feed to the clarifier is not passing through the center well and is not being properly clarified.	Need to repair before the scraper arms becomes lodged and stops operating		\$100,000			12195	Completed 5/21/20	\$24,955	\$24,995																						
2	Replace Existing Hydro Tank	The 20,000 gallon hydro-tank has only ~20% of its interior coating remaining and some metal has corroded. After the design began, the compressor was found to be at the end of its useful life and the controls were inoperable. Both were replaced.	Improved safety and operation		\$70,000			12194	Completed 9/1/20	\$163,500		\$50,000		\$45,000																			
3	Elevated Storage Tank Interior & Exterior Recoating	600,000 gallon, composite tank. Exterior and interior recoating required.	The EST was coated in 2006. It should be recoated every 8-10 years or 2014-2016.		\$425,000			12197	Completed 8/20/20	\$351,500				\$425,000	\$73,500																		
Projects required for existing plant to meet inspections, permit or regulations																																	
1	Ground Storage Tank Exterior Coating	The existing GST has mold buildup on the exterior of the tank. The Operator tried power washing but the buildup does not come off.	Prior to project inspect tanks to verify integrity of both tanks at SWTP	2027	\$120,000		\$150,000																									\$150,000	
Projects required due to projected buildout																																	
1	Expand SWTP from 2.4 to 4 MGD	Will need to expand the SWTP to meet buildout projections and HGSD requirements beginning in 2025. Need to model the Water System to confirm. Hydraulic Modeling is \$40,000. Low range cost is \$4/gpd and high range is \$7/gpd. Projects #1 thru #9 below would be included in this expansion.	Meet buildout projects and HGSD requirements beginning in 2025	2025	\$4,800,000-\$8,400,000	\$4,000,000-\$5,000,000	\$7,000,000	12263	Project is in design and projected to bid Q3 2024; delay with Purifics and TCEQ coordination.												\$4,000,000		\$3,000,000										
2	New Generator	Existing generator is 350 kW and is almost 25 yrs. old. The generator will be under-sized for the future needs (additional onsite 1300 gpm well with 200 Hp motor/pump). Need 700 kW Diesel Generator or 750 kW Natural Gas Generator. This assumes there is an adequate natural gas supply.	To be included in the well replacement project.		\$800,000-\$900,000	\$900,000	\$950,000	125-10043																									
Projects to improve the treatment process and operational efficiencies, if chosen individually from the expansion																																	
1	Treatability Study	This study would evaluate the most efficient mix of filter media and membrane filters to produce the optimum water quality at minimum operational costs	Improve the operational efficiencies		\$250,000				No longer applicable due to Purifics																								
1A	Purifics Filter Pilot Study	This study would evaluate the performance effectiveness and efficiency of the Purifics Filter to the treat/remove Total Organic Carbon (TOC) and Pathogens within the purification process	Improve the operational efficiencies		\$15,000-\$25,000			12151	Completed November 2020	\$23,000	\$23,000																						
2	Add Membrane Filters	After determination of treatability study	Improve the operational efficiencies		\$500,000-\$800,000	\$7,038,000-\$7,820,000		12210/12263	PER for Pilot Study completed 2/21 and sent to TCEQ 7/21. Board purchased filters 9/22. Filters included in SWTP expansion	\$7,820,000								\$7,820,000															
3	Add Streaming Current/Zeta Potentiometer for coagulant dosage control.	Adding equipment to monitor water quality and allow more accuracy in chemical dosing. Chemical dosing is a function of both water flow rate and water quality.	Improve the operational efficiencies		\$40,000				No longer applicable due to Purifics																								
4	Add online monitoring of pH (D3), Monochloramine, Total Cl2, NTU & Nitrate/Nitrite	Adding equipment to allow online analysis of water quantity and disinfectant concentrations	Improve the operational efficiencies		\$80,000				No longer applicable due to Purifics																								
5	Add online monitoring of pH (D2), Monochloramine, Total Cl2, Free Ammonia	Adding equipment to allow online analysis of water quantity and disinfectant concentrations	Ensures chemical dosing is adequate and prevents overdosing		\$75,000				No longer applicable due to Purifics																								
6	Add Inline Mixers at Clarifiers for Chlorine and Liquid Ammonia Sulphate	Plant does not meet current TAC Ch 290.42e7 regulations to flash mix Chloramines but did meet the regulations in place at the time of design & construction. These changes will be required with a plant expansion. An inline mixer would be added to fully disperse disinfecting chemicals.	Include with SWTP Expansion		\$20,000				No longer applicable due to Purifics																								
7	Change Filter Media from Powder Activated Carbon to Sand and Granular Activated Carbon	The current Powder Activated Carbon Filter Media is very messy to work with	Improve operations		\$200,000				No longer applicable due to Purifics																								
8	Add Pretreatment Basin to add Chlorine and Aerate the Water	This will be required with a Plant Expansion to meet TAC Ch 290.42 regulations.	Improve the operational efficiencies		\$500,000				No longer applicable due to Purifics																								
9	Add equipment to mix water within the Water Storage Tanks	Pulsed air. Red Valve, Pipeflex, or SolarBee. Will help keep nitrification down when using chloramine. Could potentially remove this project.	Improve water quality	2030	\$350,000	\$350,000	\$370,000		Desired but not required for plant function (PUS 12/22)																								\$370,000
10	Abandon existing Water Plant #2 Water Well and add New Water Well on SWTP site	Water well at WP#2 is not used due to taste & odor issues. A TV inspection shows the well casing is in bad condition. Recommend abandoning and plugging the well at WP#2 and drill new well at SWTP.	A second well is needed	2027	\$1,300,000-\$1,500,000	\$1,800,000-\$2,200,000	\$2,500,000	125-10043	Began preliminary layout of proposed well Q4 2023. B17 Funds Reallocated to purchase Purifics Filters. Plan to replace WP2, see Water Plant Tab.																								\$2,500,000
Surface Water Treatment Plant Projects Total							\$10,970,000					\$50,000	\$0	\$470,000		\$0	\$0	\$7,820,000	\$0	\$4,000,000	\$0	\$3,000,000	\$0	\$2,650,000	\$0	\$0	\$370,000						
TOTAL INCLUDING INFLATION VALUES (5% per year from 2024-2026 and 3% per year from 2027-2030)												\$50,000	\$0	\$470,000	\$0	\$0	\$0	\$7,820,000	\$0	\$4,000,000	\$0	\$3,277,000	\$0	\$3,115,000	\$0	\$0	\$476,000						

Newport MUD		Desired but not required for plant function																												
Water Plants		Further Investigation																												
As of 8/1/24																														
No.	Project	Description of Problem, Project and Information	Justification	When Needed (years)	Cost (2019\$)	Cost (2022\$)	Cost (2023\$)	LAN Project Number	Status (as of 8/1/24)	Bid Amount	Operations Funds	Bond Authorization Prior to 2020			Bond Funds from May 2020 Bond Election			Year Anticipated												
												Bond Issue #4	Bond Issue #5	Bond Issue #6	Bond Issue #7	Bond Issue #8	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
Water Plant No. 1 (Constructed in 1978)																														
1	Replace the two existing submersible pump motors (combined 1800 gpm) in with one vertical turbine motor and pump	One pump is 60 HP and the other is 75 HP. Every 8 - 10 years the motor and pump require rehab. Consider replacing the pumps with a single pump and turbine motor for ease of rehab.	Reduce rehab cost	2026	\$300,000	\$400,000	\$350,000	125-10035																					\$400,000	
2	Reduce odor and taste issues	System improvements to reduce H2S presence in groundwater	Sulfide removal		\$200,000	\$200,000	\$500,000	125-10035	PER completed 12/23							\$200,000						\$300,000								
3	Remove & replace all valves	The site has 30 year old valves, which are difficult to operate				\$200,000	\$225,000																						\$225,000	
4	Change the roof pitch and re-coat of building	Existing roof is flat and doesn't drain well, possibly change to gable roof			\$50,000	\$50,000																								\$50,000
5	Add equipment to mix water within the 500,000 gallon Water Storage Tank	Add mixing equipment to keep consistent water age throughout tank and provide uniform chlorine residual			\$110,000	\$110,000	\$110,000	125-10035																						\$110,000
6	Install one isolation valve on distribution pipe inside plant	The existing water plant does not have an isolation valve and one is needed for maintenance purposes.			\$15,000	\$15,000							\$15,000																	
7	Replace booster pumps and concrete pads	There are four booster pumps that were installed in 1978. The booster pump pads sank due to 2023 drought causing issues with pipe connections.					\$1,500,000	125-10035																						
Water Plant No. 2 (Constructed in 1973)																														
1	Cap and abandon existing Water Well at Water Plant #2 (1300 gpm).	Well is not used. A 2018 inspection shows casing in poor condition and water quality is not good. Investigating whether issues can be remediated to bring well back online or replacement well is required.		2026	\$40,000	\$150,000	\$150,000	125-10043	Well to be capped by fall 2026 unless rehabilitated. Replacement well is included in Surface Water Plant Tab.							\$40,000													\$110,000	
2	Install 20,000 gallon Hydro Tank	Well may require a separate hydro tank if placed at water plant 2, otherwise place at water plant 1. Tank will provide pressure to system required for ACR.		2025			\$225,000																					\$225,000		
3	Install 400,000 gallon Ground Storage Tank	Well may require a ground storage tank if placed at water plant 2, otherwise place at water plant 1. Tank will provide water supply redundancy and pressure to system required for ACR.		2025			\$1,750,000																					\$1,750,000		
Water Plant Projects Total					\$715,000	\$1,125,000	\$4,810,000																							
TOTAL INCLUDING INFLATION VALUES (5% per year from 2024-2026 and 3% per year from 2027-2030)												\$0	\$0	\$15,000	\$0	\$0	\$0	\$240,000	\$0	\$0	\$0	\$2,275,000	\$0	\$735,000	\$0	\$0	\$160,000			
												\$0	\$0	\$15,000	\$0	\$0	\$0	\$240,000	\$0	\$0	\$0	\$2,485,000	\$0	\$864,000	\$0	\$0	\$206,000			

Newport MUD																			
Water Distribution System - Inspection, Evaluation and Rehabilitation																			
As of 8/1/24																			
No.	Subdivision	Status (as of 8/1/24)	Year	Pipe	Rehab	Bond Authorization Prior to 2020			Bond Funds from May 2020 Bond Election					Year Anticipated					
						Bond Issue #4	Bond Issue #5	Bond Issue #6	Bond Issue #7	Bond Issue #8									
						\$5.5M	\$4.225M	\$7.5M	\$20.84M	\$12.43M	2020	2021	2022	2023	2024	2025	2026	2027	2028
1	Country Club Villas of Newport Section 1 & 2		1982			\$0													
2	Deerpointe Section 1		1978	AC		\$0													
3	Newport Country Club Estates Section 1		1979	AC		\$0													
4	Newport Country Club Golf Club		1972	AC		\$0													
5	Newport Court		2016	PVC		\$0													
6	Newport Section 1	\$600,000 of BI7 Funds Reallocated to SDH Utility Reloc	1972	AC	\$2,740,000							\$550,000				\$530,000		\$530,000	\$530,000
7	Newport Section 2		1972	AC		\$0													
8	Newport Section 3	Adjustment due to increased construction costs	1972	AC	\$1,590,000										\$480,000		\$510,000	\$600,000	
9	Newport Section 4	Adjustment due to increased construction costs	1972	AC	\$890,000														
10	Newport Section 4, Partial Replat 1		2016	PVC		\$0													
11	Newport Section 4, PR 4 (DH Builders)		2017	PVC		\$0													
12	Newport Section 5	Adjustment due to increased construction costs, Additional needs identified.	1972	AC	\$1,440,000										\$530,000	\$370,000	\$540,000		
13	Newport Section 6	Adjustment due to increased construction costs	1972	AC	\$940,000													\$550,000	\$390,000
14	Newport Section 6, Partial Replat 1		2019	PVC		\$0													
15	Newport Section 7		1972	AC		\$0													
16	Newport Sec 7, Partial Replat No. 1		2018	PVC		\$0													
17	Newport Sec 7, Partial Replat No. 3		2019	PVC		\$0													
18	Newport Sec 7, Partial Replat No. 4		2019	PVC		\$0													
19	Newport Sec 7, Partial Replat No. 5		2020	PVC		\$0													
20	Newport Section 8	Adjustment due to increased construction costs	1978	AC	\$600,000														
21	Newport Section 8, Partial Replat 1		2015	PVC		\$0													
22	Newport Section 8, Partial Replat 3		2018	PVC		\$0													
23	Newport Section 8, Partial Replat 4		2017	PVC		\$0													
24	Newport Section 9		2017	PVC		\$0													
25	Newport Section 10		1974	AC		\$0													
26	Newport Section 10, Partial Replat 1		2019	PVC		\$0													
27	Newport Section 11 (portion of Section 6 Res B)		2006 & 2010			\$0													
28	Newport Section 12 (Newport Villas)		2016	PVC		\$0													
29	Oaks at Newport Section 1		1981			\$0													
30	Patio Woods		1975	AC		\$0													
31	Seven Oaks North		2010	PVC		\$0													
32	Seven Oaks South		2014	PVC		\$0													
33	Union of Operating Engineers Training Fac.		2019	PVC		\$0													
34	Villas at Newport		2014	PVC		\$0													
35	Water Meter Replacement Program	Est. 20 year battery life, est. 2038	2018			\$1,500,000													
36	S. Diamondhead Utility Relocation (Water)	Construction Start 2023	2023							\$970,000									
37	Valve Survey and Replacement Program (Replace approximately 50 valves per year)	\$120,000 of BI7 Funds Reallocated to SDH Utility Reloc								\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Water Distribution Projects Total						\$0	\$0	\$0	\$0	\$970,000	\$0	\$550,000	\$0	\$250,000	\$1,260,000	\$1,150,000	\$1,300,000	\$1,930,000	\$1,170,000
TOTAL INCLUDING INFLATION VALUES (5% per year from 2024-2026 and 3% per year from 2027-2030)						\$0	\$0	\$0	\$0	\$970,000	\$0	\$550,000	\$0	\$274,000	\$1,438,000	\$1,352,000	\$1,574,000	\$2,407,000	\$1,503,000

Newport MUD						*All TV Costs from BI 4-6*			Bond Funds from May 2020 Bond Election						Year Anticipated								
Sanitary Sewer System - Inspection, Evaluation and Rehabilitation						Bond Authorization Prior to 2020																	
As of 8/1/24						\$50,000	\$1,142,900	\$615,433	\$2,720,000			\$2,000,000											
						Bond	Bond	Bond	Bond			Bond											
						Issue #4	Issue #5	Issue #6	Issue #7			Issue #8											
						\$5.5M	\$4.225M	\$7.5M	\$20.84M			\$12.43M											
						Assuming 1 Line Rehab and 1 MH Rehab Project per Year																	
No.	Subdivision	% CA 4s and 5s	Status (as of 8/1/24)	Platted	Pipe	Material	2016	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
			Through Phase 3 Rehab	% Rehab in Ph. 4																			
1	Country Club Villas of Newport Section 1 & 2 Country Club Villas of Newport Section 1 & 2 MHs	20% to be rehabilitated	100% TV 100% TV	0.0%	1982	Truss & Conc			\$4,000												\$12,000		
2	Deerpointe Section 1 Deerpointe Section 1 MHs	40% to be rehabilitated	100% TV 100% TV	0.0%	1978	Truss & Conc			\$10,000													\$11,000	
3	Newport Country Club Estates Section 1 Newport Country Club Estates Section 1 MHs	50% to be rehabilitated	100% TV 100% TV	0.0%	1979	Truss			\$10,000													\$8,000	
4	Newport Country Club Golf Club Newport Country Club Golf Club MHs	50% to be rehabilitated	100% TV 100% TV	0.0%	1972	Concrete			\$10,000													\$5,000	
5	Newport Court (Defined Area)				2016	PVC																	
6	Newport Section 1 Newport Section 1 MHs	50% to be rehabilitated	100% TV; 8.2% rehabilitated 100% TV	7.7%	1972	Concrete		\$231,509	\$120,000		\$50,000		\$362,250	\$200,000	\$200,000	\$140,000	\$60,000	\$50,000	\$25,000			\$33,000	
7	Newport Section 2 Newport Section 2 MHs	50% to be rehabilitated	100% TV; 6.6% rehabilitated 100% TV	11.2%	1972	Truss & Conc		\$95,659	\$160,000		\$4,000		\$301,500	\$60,000	\$100,000	\$65,000			\$25,000	\$35,000		\$38,000	
8	Newport Section 3 Newport Section 3 MHs	60% to be rehabilitated	100% TV; 5.7% rehabilitated 100% TV	0.0%	1972	Truss & Conc		\$96,613	\$60,000		\$12,000		\$107,500						\$50,000	\$25,000			
9	Newport Section 4 Newport Section 4 MHs	40% to be rehabilitated	100% TV; 0.2% rehabilitated 100% TV	2.6%	1972	Concrete			\$70,000		\$4,000		\$103,750		\$75,000			\$25,000	\$30,000			\$33,000	
10	Newport Section 4, Partial Replat 1				2016	PVC																	
11	Newport Section 4, PR 4 (DH Builders)				2017	PVC																	
12	Newport Section 5 Newport Section 5 MHs	60% to be rehabilitated	100% TV; 0% rehabilitated 100% TV	2.9%	1972	Concrete			\$40,000													\$40,000	
13	Newport Section 6 Newport Section 6 MHs	55% to be rehabilitated	100% TV; 30.6% rehabilitated 100% TV	14.9%	1972	Truss & Conc		\$266,461	\$80,669		\$400,000		\$297,500	\$350,000	\$90,000	\$20,000	\$60,000	\$50,000	\$25,000				
14	Newport Section 6, Partial Replat 1				2019	PVC																	
15	Newport Section 7 Newport Section 7 MHs	30% to be rehabilitated	100% TV; 0% rehabilitated 100% TV	0.0%	1972	Truss			\$50,000												\$25,000	\$25,000	
16	Newport Sec 7, Partial Replat No. 1				2018	PVC																	
17	Newport Sec 7, Partial Replat No. 3				2019	PVC																	
18	Newport Sec 7, Partial Replat No. 4				2019	PVC																	
19	Newport Sec 7, Partial Replat No. 5				2020	PVC																	
20	Newport Section 8 Newport Section 8 MHs	30% to be rehabilitated	100% TV; 1.4% rehabilitated 100% TV	0.0%	1978	Truss		\$16,286	\$50,000												\$25,000	\$20,000	\$33,000
21	Newport Section 8, Partial Replat 1				2015	PVC																	
22	Newport Section 8, Partial Replat 3				2018	PVC																	
23	Newport Section 8, Partial Replat 4				2017	PVC																	
24	Newport Section 9				2017	PVC																	
25	Newport Section 10 Newport Section 10 MHs	45% to be rehabilitated	100% TV; 27.5% rehabilitated 100% TV	1.7%	1974	Truss & Conc		\$189,729	\$50,000		\$280,000		\$427,500		\$50,000		\$50,000	\$25,000	\$20,000			\$21,000	
26	Newport Section 10, Partial Replat 1				2019	PVC																	
27	Newport Section 11 (portion of Section 6 Res B)				2006 & 2010																		
28	Newport Section 12 (Newport Villas)				2016	PVC																	
29	Oaks at Newport Section 1 Oaks at Newport Section 1 MHs	30% to be rehabilitated	100% TV; 12% rehabilitated 100% TV	0.0%	1981	Truss			\$10,000													\$11,000	
30	Patio Woods Patio Woods MHs	30% to be rehabilitated	100% TV; 0% rehabilitated 100% TV	0.0%	1975	Truss			\$10,000													\$5,000	
31	Seven Oaks North				2010	PVC																	
32	Seven Oaks South				2014	PVC																	
33	Union of Operating Engineers Training Fac.				2019	PVC																	
34	Villas at Newport				2014	PVC																	
35	S. Diamondhead Utility Relocation (Sanitary), \$1,070,000 of SS Rehab BI7 Funds Reallocated to SDH Utility Reloc									\$1,970,000													
36	Sanitary Sewer TV & Rehabilitation		83% TV (100% TV)			Lines (Sections Built Prior to 1990)		\$145,031	\$11,014							\$900,000	\$900,000	\$880,000	\$850,000	\$850,000			
Sanitary Sewer Projects Total							80% TV (100% TV)	Manholes (Sections Built #	\$0	\$1,125,183	\$745,683	\$0	\$2,720,000	\$0	\$2,000,000	\$0	\$950,000	\$1,020,000	\$1,100,000	\$1,080,000	\$1,030,000	\$1,050,000	
TOTAL INCLUDING INFLATION VALUES (5% per year from 2024-2026 and 3% per year from 2027-2030)									\$0	\$1,125,183	\$745,683	\$0	\$2,720,000	\$0	\$2,000,000	\$0	\$1,038,000	\$1,164,000	\$1,293,000	\$1,308,000	\$1,285,000	\$1,349,000	

Newport MUD							Completed																				
Lift Stations							No longer applicable																				
As of 8/1/24							Further investigation																				
												BA Prior to 2020	Bond Funds from May 2020 Bond Election					Year Anticipated									
												Bond Issue #6	Bond Issue #7	Bond Issue #8													
Surface inspection performed on all lift stations in 2019												\$7.5M	\$20.84M	\$12.43M													
No.	Project	Description and Information	Justification	When Needed (Year)	Conceptual Cost (2019\$)	Conceptual Cost (2022\$)	Conceptual Cost (2023\$)	LAN Project Number	Status (as of 8/1/24)	Bid Amount	Operations Funds	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030				
25	Lift Station #3 - 1212 S. Diamondhead Blvd	Misc. - Install Fence	Existing fence is not min. 6' tall, does not encompass the valve vault. Add site lighting.	2038	\$20,000	\$0	\$0		Abandoned and replaced in 2024 in SDH Utility Reloc			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Lift Station #3 Total											\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	Lift Station #4 - 931 Flying Bridge Way	Wet Well - Reline, Seal I/I	Coal tar liner is showing signs of deterioration.	2025	\$30,000	\$50,000	\$50,000		Postponed until Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27	Lift Station #4 - 931 Flying Bridge Way	Riser Pipes - Replace	Signs of corrosion	2025	\$25,000	\$30,000	\$30,000		Postponed until Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28	Lift Station #4 - 931 Flying Bridge Way	Valves/ Yard Piping - Replace	Exterior pipe is chalking.	2025	\$15,000	\$20,000	\$37,000		Postponed until Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$37,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	Lift Station #4 - 931 Flying Bridge Way	MCC - Replace	Experiencing ongoing electrical issues with the service from the main. Age (1978). Replace prior to SCADA. Provide more site lighting. High volume lift station. Located in the 500-year floodplain.	2020	\$80,000	\$80,000	\$260,000		Funds Reallocated to SDH Utility Reloc			\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30	Lift Station #4 - 931 Flying Bridge Way	Misc. - Install Fence	Minor rust, fencing is close to electrical pole and if possible be pushed out to provide more maneuverability.	2020	\$10,000	\$10,000	\$10,000		Funds Reallocated to SDH Utility Reloc			\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Lift Station #4 Total											\$90,000	\$0	\$0	\$0	\$0	\$0	\$117,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	Lift Station #5 - 1310-1/2 Stem Way	Wet Well - Add Liner, Seal I/I	Age (1974). Minor deficiencies observed.	2026	\$30,000	\$50,000	\$50,000					\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
32	Lift Station #5 - 1310-1/2 Stem Way	Riser Pipes - Replace	Signs of corrosion	2026	\$25,000	\$30,000	\$30,000					\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
33	Lift Station #5 - 1310-1/2 Stem Way	Valves/ Yard Piping - Replace	Signs of corrosion	2026	\$15,000	\$20,000	\$37,000					\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
34	Lift Station #5 - 1310-1/2 Stem Way	MCC - Replace	Age (1974). Located in the 100-year floodplain. To be elevated. Replace Prior to SCADA. Provide more site lighting	2021	\$80,000	\$80,000	\$200,000		Coordinating with operator to replace in 2024			\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	Lift Station #5 - 1310-1/2 Stem Way	Misc. - Install Fence	Existing wooden fence is not 8' tall, does not have barbed wire, does not have a 16 ft wide access gate. Space within the fencing is limited and if possible relocate fence to provide more maneuverability.	2021	\$10,000	\$10,000	\$10,000		Coordinating with operator to replace in 2024			\$0	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Lift Station #5 Total											\$0	\$0	\$90,000	\$0	\$0	\$0	\$117,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
36	Lift Station #6 - 818 Handspike Way	Wet Well - Add Liner	Minor aggregate showing from aboveground inspection. Age (1977)	2025	\$30,000	\$50,000	\$50,000		Postponed until Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
37	Lift Station #6 - 818 Handspike Way	Riser Pipes - Replace	Age (1977)	2025	\$25,000	\$30,000	\$30,000		Postponed until Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
38	Lift Station #6 - 818 Handspike Way	Valves/ Yard Piping - Replace	Exterior pipe is chalking, dry pit pipes have signs of corrosion. Valves in good condition, some need recoating.	2025	\$15,000	\$20,000	\$37,000		Postponed until Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$37,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
39	Lift Station #6 - 818 Handspike Way	MCC - Replace	Move to surface for safer access. Age (1977). Replace Prior to SCADA. Add site lighting.	2021	\$80,000	\$80,000	\$0		Completed			\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40	Lift Station #6 - 818 Handspike Way	Misc. - Install Access Drive and Fence	Site currently does not have an access drive. COH LS design manual requires an all-weather access drive to lift station such that the ROW is not blocked by a vehicle. Existing fence is not min. 6' tall. Add Odor Control.	2025	\$20,000	\$20,000	\$32,000		Postponed until Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$32,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Lift Station #6 Total											\$0	\$0	\$80,000	\$0	\$0	\$0	\$149,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
41	Lift Station #7 - 15727 Via Dora	Wet Well - Add Liner, Seal I/I	Age (1978). Radial crack around the exterior of the wet well. Walls look good, joints have cracks nearby.	2027	\$30,000	\$50,000	\$50,000		Scheduled for 2027 (Pending Bond Authorization)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
42	Lift Station #7 - 15727 Via Dora	Riser Pipes - Replace	Signs of corrosion	2027	\$25,000	\$30,000	\$30,000		Scheduled for 2027 (Pending Bond Authorization)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
43	Lift Station #7 - 15727 Via Dora	Valves/ Yard Piping - Recoat	Coating is chalky. Concrete pipe support is cracked, needs replacement.	2027	\$15,000	\$20,000	\$51,000		Scheduled for 2027 (Pending Bond Authorization)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
44	Lift Station #7 - 15727 Via Dora	MCC - Replace	Age (1978). Located in the 100-year floodplain. Add site lighting. Rotate generator hook up for easier access.	2027	\$80,000	\$150,000	\$125,000		Scheduled for 2027 (Pending Bond Authorization)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
45	Lift Station #7 - 15727 Via Dora	Misc. - Replace stairs, handrails, and fencing	Bolt securing stairs is exposed and corroded. Handrails have come apart in places. Existing fence is not min. 6' tall. Has rust.	2027	\$15,000	\$15,000	\$46,000		Scheduled for 2027 (Pending Bond Authorization)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Lift Station #7 Total											\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$302,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
46	Seven Oaks Lift Station - 16146-1/2 Golf Club Dr	Wet Well	Constructed 2006, reline wet well	2029	\$30,000	\$50,000	\$50,000		Scheduled for 2029 (Pending Bond Authorization)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0
47	Seven Oaks Lift Station - 16146-1/2 Golf Club Dr	Riser Pipes	Constructed 2006, recoat piping	2029	\$15,000	\$15,000	\$26,000		Scheduled for 2029 (Pending Bond Authorization)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,000	\$0	\$0	\$0
48	Seven Oaks Lift Station - 16146-1/2 Golf Club Dr	Valves/ Yard Piping	Constructed 2006, recoat piping	2029	\$15,000	\$15,000	\$51,000		Scheduled for 2029 (Pending Bond Authorization)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51,000	\$0	\$0	\$0

Newport MUD					Completed																			
Lift Stations					No longer applicable																			
As of 8/1/24					Further investigation																			
										BA Prior to 2020	Bond Funds from May 2020 Bond Election					Year Anticipated								
Surface inspection performed on all lift stations in 2019										Bond	Bond			Bond										
										Issue #6	Issue #7			Issue #8										
										\$7.5M	\$20.84M			\$12.43M										
No.	Project	Description and Information	Justification	When Needed (Year)	Conceptual Cost (2019\$)	Conceptual Cost (2022\$)	Conceptual Cost (2023\$)	LAN Project Number	Status (as of 8/1/24)	Bid Amount	Operations Funds	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
49	Seven Oaks Lift Station - 16146-1/2 Golf Club Dr	MCC	Constructed 2006	2036	\$0	\$0			No work planned			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
50	Seven Oaks Lift Station - 16146-1/2 Golf Club Dr	Misc. Items	Constructed 2006	2029	\$0	\$0			No work planned			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Seven Oaks Lift Station Total												\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$127,000	\$0
Lift Station Projects Total												\$110,000	\$0	\$330,000	\$0	\$0	\$0	\$533,000	\$117,000	\$302,000	\$0	\$127,000	\$117,000	
TOTAL INCLUDING INFLATION VALUES (5% per year from 2024-2026 and 3% per year from 2027-2030)												\$110,000	\$0	\$330,000	\$0	\$0	\$0	\$583,000	\$134,000	\$355,000	\$0	\$159,000	\$151,000	

Newport MUD		1.0 MGD WWTP constructed in 1972		Completed																									
Wastewater Treatment Plant		0.3 MGD Expansion in 2008, 1.3 MGD Total		No longer applicable																									
As of 8/1/24		Currently permitted for 1.3 MGD		Desired but not required for plant function																									
				Further Investigation																									
				Conceptual																									
				When Needed (years)	Conceptual Cost Range (2019\$)	Cost (2022\$)	Cost (2023\$)	Project Number	LAN	Operations	Bond Authorization Prior to 2020			Bond Funds from May 2020 Bond Election					Year Anticipated										
No.	Project	Description of Problem & Information	Justification	When Needed (years)	Conceptual Cost Range (2019\$)	Cost (2022\$)	Cost (2023\$)	Project Number	Status (as of 8/1/24)	Bid Amount	Funds	Bond Issue #4	Bond Issue #5	Bond Issue #6	Surplus Funds	Funds Needed	Bond Issue #7	Bond Issue #8	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
8	Add a Blower system for the Chlorine System	Disconnect the air line from the main plant aeration system and construct separate blower to provide the required air.	A dedicated blower will simplify aeration control. A small blower can be used to supply this air to the clarifier.		\$200,000		\$245,000	12193	Blower system for Chlorine will be included in WWTP Expansion Phase 2.																				
9	Blower Modifications for Aeration and Digester Basins	Add sensors, motor actuated valves, and a new blower controlled by a VFD to add air to the system, as needed.	Improve operational efficiency. The system needs DO and/or ORP sensors connected to motor actuated valves for the air system in the basins to control air flow in each basin. The sensors will be connected to a PLC to read the measurements and send data to a VFD connected to a new blower to help regulate the amount of air.		\$1,200,000				Intended to be addressed through other improvements included in WWTP expansion.																				
10	Chlorine Rapid- Mix System	TCEQ requirements	The existing system met the TCEQ requirements at the time of design and construction but does not meet the current requirements. Refer to TCEQ §217.281(a)(2) "Chlorine and Sodium Hypochlorite Application. A disinfection system must apply the chlorine gas or solution in a highly turbulent flow regime created by in-line diffusers, mechanical mixers, or jet mixers. Effective initial mixing for the mean velocity gradient (G value) in the area of turbulent flow must exceed 500 per second."		\$320,000		\$395,000	12193	Included in WWTP Expansion Phase 2 with disinfection improvements.																				
11	RAS/WAS system	TCEQ requirements	The existing system met the TCEQ requirements at the time of design and construction but does not meet the current requirements. Refer to TCEQ §217.158(a)(2) "A monitoring and control system must provide a means to control return and waste sludge flows from each clarifier, to control return sludge flows into each aeration basin, to meter return sludge flows, and to measure waste sludge flows. The present system using air lift pumps cannot be metered or adequately controlled to meet these requirements. In addition, air pumping is one of the most expensive ways to pump fluids		\$350,000		\$430,000	12193	Replacement of air lift pumps with self-priming pumps is included in WWTP Expansion Phase 1.																				
12	Screw Dewater System		Improves operational efficiency. District may be able to reduce dewatering costs.		\$750,000				Review cost/benefit ratio.																				\$750,000
Wastewater Treatment Plant Projects Total							\$48,284,000				\$395,000	\$109,757	\$819,583			\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,700,000	\$16,500,000	\$21,970,000	\$0	\$3,510,000	
TOTAL INCLUDING INFLATION VALUES (5% per year from 2024-2026 and 3% per year from 2027-2030)												\$395,000	\$109,757	\$819,583	\$0	\$0	\$0	\$600,000	\$0	\$0	\$0	\$0	\$0	\$6,680,000	\$19,618,000	\$26,905,000	\$0	\$4,561,000	

Newport MUD															
Detention Ponds															
As of 8/1/24															
	Detention Ponds	Amount	2019	2020	2021	2022	2023	2024	2025		2026	2027	2028	2029	2030
1	Newport Court - Detention Pond														
2	Newport Section 7 - Detention Pond														
3	Newport Section 8 - Detention Pond														
4	Newport Section 9 - Detention Pond														
5	Newport Section 10, PR1 - Detention Pond														
6	Seven Oaks Detention Pond														
	Detention Pond Projects Total		\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0
	Total Bond Issue Requirement (1)		\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0
(1) Total Bond Issue Requirement = Construction Costs + Contingencies+ Engineering + Bond Issuance Costs															

Newport MUD															
Facilities															
As of 8/1/24		Bond													
		Issue #7													
	Cost	2020	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030		
Admin Bldg	\$250,000	\$250,000													
Facilities Total		\$250,000	\$0	\$0	\$0	\$0	\$0	\$0							
Total Bond Issue Requirement (1)		\$388,235	\$0	\$0	\$0	\$0	\$0	\$0							
(1) Total Bond Issue Requirement = Construction Costs + Contingencies+ Engineering + Bond Issuance Costs															