

Central Marin Sanitation Agency
Capital Improvement Program
FY 12 Budget and 10-Year Forecast

GL Account Number	Projected	10-year CIP											Project Totals		
		FY 11 Actuals	1 FY 12	2 FY 13	3 FY 14	4 FY 15	5 FY 16	6 FY 17	7 FY 18	8 FY 19	9 FY 20	10 FY 21		Total FY 12 - FY 21	
Facility Improvements															
7300-103-00	Effluent Storage Pond Rehabilitation ⁽¹⁾	-	-	26,188	-	-	-	-	1,321,065	-	-	-	1,347,253	1,347,253	
7300-674-00	CMMS and AM Systems	65,000	40,000	20,950	21,945	11,494	6,020	6,306	6,605	6,919	7,248	7,592	135,079	-	
7300-690-00	Elevator Repairs	20,000	15,000	15,713	16,459	17,241	18,060	18,917	19,816	20,757	21,743	22,776	186,481	-	
7300-956-00	General Industrial Coating/Sealing	-	80,000	83,800	87,781	165,510	193,839	194,219	132,107	138,382	144,955	151,840	1,372,431	-	
7300-966-00	Facility Security	10,000	10,000	10,475	10,973	11,494	12,040	12,612	13,211	13,838	14,495	15,184	124,321	-	
7300-979-00	Concrete Corrosion Inspection/Repairs ⁽²⁾	19,000	381,000	Includes scrubber room and digester gallery floor repairs from K/J report									-	381,000	400,000
7300-987-00	Outfall Inspection & Repairs	27,000	27,000	28,283	29,626	375,846	32,507	34,051	35,669	37,363	39,138	40,997	680,479	-	
7300-988-00	Catholic Protection	10,352	5,710	2,493	4,060	5,046	14,053	3,002	7,543	3,293	5,363	18,770	69,334	-	
7400-101-10	Administration Building Modifications ⁽¹⁾	1,062,545	-	-	-	-	-	-	-	-	-	-	-	1,133,359	
7400-102-10	Maintenance Building Modifications	-	47,800	419,000	FY 12 based on rough estimate for slab replacement, FY 13 - placeholder for fuller remodeling.								466,800	466,800	
7400-956-00	Facility Paving/Site work	-	35,000	36,663	38,404	40,228	42,139	44,141	46,237	48,434	50,734	53,144	435,123	-	
7400-960-00	Facility Roofs Rehabilitation ⁽¹⁾	-	-	-	768,079	-	-	-	-	-	-	-	768,079	768,079	
7400-961-00	ADA Improvements	1,000	1,000	1,048	1,097	1,149	1,204	1,261	1,321	1,384	1,450	1,518	12,432	-	
7400-963-00	Facility Structures Seismic Analysis ⁽²⁾	17,460	-	Added per K/J report - some other evals and all improvements are bundled with other projects.									-	-	
TBD	Primary Clarifier Improvement ⁽¹⁾	0	100,000	104,750	109,726	114,938	New, based on CIP team recommendation						429,413	-	
Subtotal - Facility Improvements		1,232,357	742,510	749,361	1,088,149	742,945	319,861	314,508	1,583,574	270,370	285,126	311,822	6,408,226		
General Equipment															
7300-672-00	Process Control & Security Systems	22,500	39,000	82,753	35,112	36,780	38,527	40,357	42,274	44,282	46,385	48,589	454,059	-	
7300-683-00	Above Ground Fuel Storage Tanks	-	25,000	-	-	114,938	-	-	-	-	-	-	139,938	-	
7410-603-00	Telephone System	95,000	10,000	10,475	5,486	5,747	6,020	6,306	6,605	6,919	14,495	15,184	87,238	-	
7410-851-00	IT Hardware and Communication Equip	10,000	13,800	14,456	15,142	15,861	16,615	17,404	18,231	19,097	20,004	20,954	171,563	-	
7420-701-00	Vehicle, Equipment Replace, Hybrid Batteries	34,000	76,000	46,090	51,571	42,527	48,159	59,275	39,632	27,676	86,973	45,552	523,454	-	
7430-958-00	Laboratory Equipment	35,000	25,500	15,189	35,112	9,195	7,826	5,045	7,926	13,146	5,798	9,110	133,848	-	
7450-002-00	Electrical Equipment	35,000	53,000	60,755	58,155	60,917	63,810	63,058	59,448	62,272	65,230	68,328	614,972	-	
7450-102-00	Process Instrumentation	13,000	17,000	27,235	20,848	22,988	24,079	25,223	26,421	27,676	28,991	30,368	250,830	-	
TBD	Electrical System Testing	-	-	26,188	-	-	-	-	33,027	-	-	-	59,214	-	
Subtotal - General Equipment		244,500	259,300	283,139	221,426	308,952	205,036	216,667	233,564	201,068	267,876	238,085	2,435,116		
Liquids Treatment Equipment and Systems															
7300-641-00	Effluent Pump Station Maintenance	10,000	5,000	5,238	5,486	5,747	6,020	6,306	6,605	6,919	7,248	7,592	62,160	-	
7300-680-00	Grit Systems	40,000	30,000	31,425	32,918	34,481	36,119	88,281	92,475	96,867	101,468	106,288	650,322	-	
TBD	Bio-Tower Rotary Distributor Replacement	-	-	115,225	-	-	-	-	-	-	-	-	115,225	115,225	
7300-700-00	Plant Pumps	30,000	50,000	62,850	54,863	45,975	48,159	50,446	52,843	55,353	57,982	75,920	554,390	-	
7300-709-00	Odor Control Equipment Maintenance	-	9,000	9,428	-	-	-	-	-	-	-	-	18,428	-	
7300-719-00	Chemical Pumps	45,000	69,000	41,900	43,890	45,975	48,159	50,446	52,843	55,353	57,982	60,736	526,284	-	
7300-720-00	Gates Rehabilitation	100,000	100,000	104,750	109,726	114,938	120,397	126,116	132,107	138,382	144,955	151,840	1,243,209	-	
7300-727-00	Headworks Equipment	30,000	15,000	10,475	10,973	11,494	12,040	12,612	13,211	13,838	14,495	15,184	129,321	-	
7300-981-00	Odor Control System Improvements ⁽¹⁾⁽²⁾	-	96,000	838,000	Based on K/J's Phase 2 estimate - rebuilding existing @ ~\$200,000/ea vs. \$1.1 - 1.6M each to replace								934,000	934,000	
7300-982-00	Aeration Blower Replacement ⁽¹⁾	58,198	1,110,802	-	-	-	-	-	-	-	-	-	1,110,802	1,169,000	
7300-983-00	Process Tank Maintenance	90,000	92,000	83,800	82,294	86,203	90,298	94,587	99,080	103,786	108,716	113,880	954,644	-	
7300-990-00	Clarifiers Turntable Drives	60,000	-	-	-	103,444	108,357	113,504	Includes seismic retrofit of center columns					325,306	-
7400-964-00	3-Water System Improvements	-	20,000	41,900	367,800		-	-	-	-	-	-	429,700	429,700	
7430-855-00	Chemical Tanks	21,000	23,400	24,512	25,676	26,895	28,173	29,511	30,913	32,381	67,839	71,061	360,361	-	
7430-857-00	Piping, Valves & Operators	60,000	75,000	62,850	54,863	57,469	60,199	75,670	66,053	69,191	72,477	75,920	669,691	-	
7450-104-10	Influent Flow Meter Improvement	61,410	-	-	-	22,988	-	-	-	-	-	-	22,988	84,398	
TBD	Critical Buried Pipe Inspection/Repairs	-	100,000	235,688	-	-	-	-	-	-	-	-	335,688	335,688	
Subtotal - Liquids Treatment Equipment and Systems		544,198	1,795,202	1,668,039	420,688	923,409	557,920	647,479	546,128	572,069	633,162	678,421	8,442,518		

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		1 FY 12	2 FY 13	3 FY 14	4 FY 15	5 FY 16	6 FY 17	7 FY 18	8 FY 19	9 FY 20	10 FY 21		Total FY 12 - FY 21	
Solids Treatment and Energy Generation Equipment and Systems														
7300-678-00	Emergency Generator Assessment & Improvement ⁽¹⁾	-	50,000	-	-	-	300,993	-	1,981,598	-	-	-	2,332,590	2,332,590
7300-691-00	Digester Inspection & Cleaning	-	-	-	-	-	-	-	-	138,382	144,955	-	283,336	-
7300-715-00	Centrifuge Maintenance	25,000	35,000	38,234	40,050	41,952	43,945	46,032	48,219	50,509	52,908	55,422	452,271	-
7300-721-00	Cogeneration Heat Exchangers	30,000	40,000	31,425	27,431	114,938	36,119	37,835	52,843	41,514	36,239	151,840	570,184	-
7300-722-00	Cogeneration Maintenance	65,000	100,000	147,121	71,322	92,870	49,965	151,339	60,439	110,705	60,156	213,259	1,057,176	-
7300-724-00	Hot Water Systems	12,000	12,000	12,570	13,167	13,793	14,448	15,134	15,853	16,606	17,395	18,221	149,185	-
7300-725-00	Boilers Rehabilitation or Replacement	-	-	-	65,835	-	-	-	280,066	-	-	-	345,901	-
7300-726-00	Sludge Heat Exchanger	-	-	-	-	17,241	-	-	-	-	416,020	-	433,261	-
7300-957-00	Waste Gas Burners	7,000	-	26,188	-	-	-	-	-	-	-	-	26,188	-
7300-977-00	Sludge Recirculating Pump Grinders	23,430	30,000	26,188	16,459	17,241	18,060	18,917	19,816	20,757	21,743	22,776	211,956	-
7300-978-00	Biosolids Hoppers Maintenance	45,000	-	-	-	6,896	-	8,702	-	10,794	-	-	26,392	-
7400-964-10	Sludge Thickening Improvements ⁽¹⁾	-	-	419,000	3,511,220	-	-	-	-	-	-	-	3,930,220	3,930,220
7430-957-10	Digester Improvements - FOG Facility ⁽¹⁾	631,628	4,145,162	2,763,108	-	-	-	-	-	-	-	-	6,908,270	7,539,898
Subtotal - Solids Treatment and Energy Generation Equipment and Systems		207,430	4,412,162	3,463,833	3,745,484	304,929	463,529	277,960	2,458,832	389,267	749,416	461,518	16,726,930	
Annual Totals		2,978,485	7,209,174	6,164,372	5,475,748	2,280,235	1,546,347	1,456,614	4,822,099	1,432,775	1,935,580	1,689,846	34,012,790	

(1) **BOLD** items are individual Capital Improvement Projects, nonrecurring projects estimated to exceed \$500,000 total cost.

(2) **BOLD ITALIC** items added or modified per Kennedy/Jenks Engineers' 2010 CIP Planning Assistance and 2011 CIP Planning Phase 2 Recommendations

GL Account Number	Unfunded Potential Future CIP Studies and Projects Potentially Driven by Regulatory or Other Outside Factors
7300-968-00	Enhanced Biosolids Quality (Formerly Class A Biosolids)
TBD	Blending Reduction
7300-981-10	Odor Control Improvements

THESE NOTES AND ESCALATION FACTORS CAN BE REMOVED FROM FINAL PRINTED VERSION.

Proposed funding source column and escalation rate information is shown on this copy, but can be hidden after GM review.

Escalation Rate:	4.75% Based on average of ENR CCI changes for past 5 years.
Escalation Factors	1.048 1.097 1.149 1.204 1.261 1.321 1.384 1.450 1.518