

DATE: March 1, 2023

TO: Orange County Sanitation District
Board of Directors

FROM: Rob Thompson, General Manager
Through: Kathy Millea, Director of Engineering

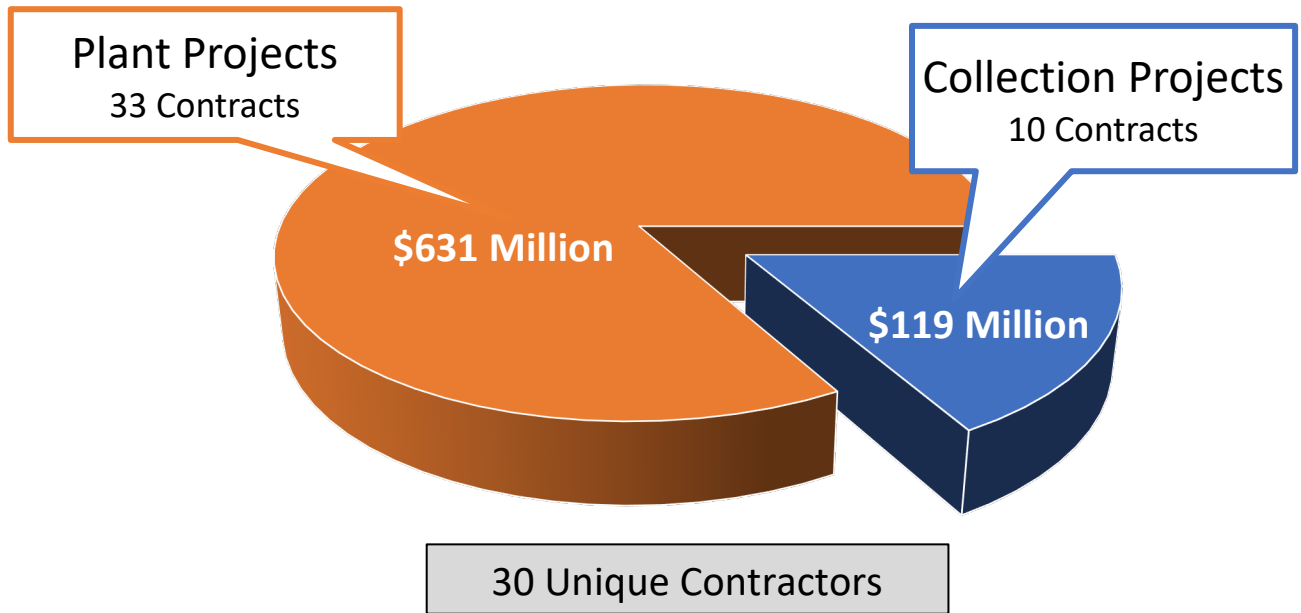
This report summarizes the status, activities, and performance of construction contracts and consultant agreements. This report also identifies the names and status of projects being performed under master budgets for planning studies, research, small construction projects, Operations & Maintenance capital projects, and information technology projects.

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PART 1 - CONSTRUCTION CONTRACTS

Table 1 lists the Board-awarded construction contracts active as of December 31, 2022, while Tables 2 and 3 list the General Manager-awarded and Operations Committee-awarded construction contracts. The General Manager may award contracts up to \$100,000 and task orders up to \$300,000. The graph below shows the number and total value of projects broken down by plant and collections.



One Board-awarded construction contract was closed in this quarter, as listed in Table 4. No construction contracts awarded by the General Manager, or the Operations Committee were closed in this quarter, as shown in Tables 5 and 6.

Table 1 - Active Board-Awarded Construction Contracts

Project/Contract	Contractor	Award Date	Contract Amount				Contingency				
			Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining	
2-72B	Newhope-Placentia Trunk Replacement, Segment B	OHL USA	05/23/2018	\$58,242,000	\$5,604,884	\$63,846,884	100.0%	6.5%	12.0%	9.6%	2.4%
3-62	Westminster Blvd Force Main Replacement	Teichert Energy - Utilities Group, Inc.	12/18/2019	\$27,743,000	\$1,246,292	\$28,989,292	93.2%	10.0%	10.0%	4.5%	5.5%
3-64B	Los Alamitos Trunk Sewer Rehabilitation	Steve P. Rados, Inc.	05/26/2021	\$17,775,000	\$0	\$17,775,000	52.4%	10.0%	10.0%	0.0%	10.0%
7-66	Sunflower and Red Hill Interceptor Repairs	Charles King Company	07/28/2021	\$4,777,000	\$123,669	\$4,900,669	75.4%	10.0%	10.0%	2.6%	7.4%
FE18-13	Redhill Relief Sewer Relocation at State Route 55	SRK Engineering, Inc.	06/22/2022	\$2,213,000	\$0	\$2,213,000	0.0%	15.0%	15.0%	0.0%	15.0%
FE18-14	Plant Water Pipeline Replacement in Kinnison, Lindstrom, and Scott Tunnels at Plant No. 2	MMC, Inc.	12/16/2020	\$1,134,000	\$0	\$1,134,000	0.0%	15.0%	15.0%	0.0%	15.0%
FE18-15	Plant Boiler System Relief at Plant No. 2	MMC, Inc.	04/28/2021	\$230,000	\$24,528	\$254,528	94.1%	15.0%	15.0%	10.7%	4.3%
FE19-01	Pump Station Portable Generator Connectors	Pacific Industrial Electric	09/29/2021	\$1,207,479	\$0	\$1,207,479	21.7%	10.0%	10.0%	0.0%	10.0%
FE19-03	Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1	Garney Pacific, Inc.	02/23/2022	\$778,000	\$18,317	\$796,317	48.0%	10.0%	10.0%	2.4%	7.6%
FE19-04	Sunflower Pump Replacement at Plant No. 1	GSE Construction Company, Inc.	10/27/2021	\$2,123,200	\$0	\$2,123,200	2.9%	10.0%	10.0%	0.0%	10.0%
FE19-06	EPSA Motor Cooling Improvements at Plant No. 2	MMC, Inc.	09/29/2021	\$854,000	\$21,474	\$875,474	33.1%	10.0%	10.0%	2.5%	7.5%

Table 1 - Active Board-Awarded Construction Contracts

Project/Contract	Contractor	Award Date	Contract Amount				Contingency				
			Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining	
FE19-08	Secondary Treatment VFD Replacements at Plant No. 2	ACS Engineering	03/23/2022	\$1,433,000	\$0	\$1,433,000	0.0%	10.0%	10.0%	0.0%	10.0%
FE19-12	Rebuild Shop Fume Extractor Installation at Plant No 1	RAN Enterprises, Inc	10/18/2022	\$217,000	\$0	\$217,000	1.4%	10.0%	10.0%	0.0%	10.0%
FE20-01	Wastehauler Station Safety and Security Improvements	Leed Electric	09/28/2022	\$1,689,788	\$0	\$1,689,788	0.0%	10.0%	10.0%	0.0%	10.0%
FE20-04	Cengen Cooling Water Pipe Replacement at Plant No. 2	Innovative Construction Solutions	12/22/2022	\$3,487,600	\$0	\$3,487,600	0.0%	10.0%	10.0%	0.0%	10.0%
FE20-06	Thickening and Dewatering Building Pipe Support Improvements at Plant No. 1	Garney Pacific, Inc.	02/23/2022	\$793,000	\$0	\$793,000	70.6%	10.0%	10.0%	0.0%	10.0%
FE20-07	Santa Ana Trunk Rehabilitation at Plant No. 1	Sancon Technologies Inc.	04/27/2022	\$395,082	\$0	\$395,082	100.0%	20.0%	20.0%	0.0%	20.0%
FR1-0012	Building B Floor Replacement, Jib Crane, and Forklift Pad	Vicon Enterprise	06/22/2022	\$220,000	\$0	\$220,000	54.3%	10.0%	10.0%	0.0%	10.0%
FR1-0016	Waste Sidestream Pump Station VFD replacements at Plant No.1	Leed Electric	03/23/2022	\$344,889	\$0	\$344,889	4.8%	15.0%	15.0%	0.0%	15.0%
FR2-0018	Activated Sludge Clarifier Repairs at Plant No. 2	Garney Pacific, Inc.	10/11/2022	\$5,091,686	\$0	\$5,091,686	2.5%	10.0%	10.0%	0.0%	10.0%
FRC-0002	Bay Bridge Pump Station Valve Replacement	Innovative Construction Solutions	11/18/2020	\$598,000	\$288,865	\$886,865	100.0%	55.0%	55.0%	48.3%	6.7%
J-117B	Outfall Low Flow Pump Station	Shimmick Construction	12/19/2018	\$90,200,000	\$2,520,775	\$92,720,775	76.5%	8.0%	8.0%	2.8%	5.2%

Table 1 - Active Board-Awarded Construction Contracts

Project/Contract	Contractor	Award Date	Contract Amount				Contingency				
			Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining	
J-120	Process Control Systems Upgrades	ABB, Inc.	09/15/2021	\$11,818,480	\$0	\$11,818,480	9.2%	10.0%	10.0%	0.0%	10.0%
J-127	Natural Gas Pipelines Replacement at Plant Nos. 1 and 2	Innovative Construction Solutions	07/22/2020	\$745,500	\$68,668	\$814,168	100.0%	10.0%	10.0%	9.2%	0.8%
J-135B	Engine and Generator Overhauls at Plant No. 1 and 2	Cooper Machinery Services	07/27/2022	\$29,361,029	\$917,783	\$30,278,812	11.0%	10.0%	10.0%	3.1%	6.9%
MP-307	Bushard Diversion Structure Repair	Abhe - Svoboda, Inc.	06/22/2022	\$1,762,545	\$0	\$1,762,545	0.0%	10.0%	10.0%	0.0%	10.0%
P1-105	Headworks Rehabilitation at Plant 1	Kiewit Infrastructure West Co.	03/24/2021	\$222,330,000	\$712,493	\$223,042,493	19.7%	4.0%	4.0%	0.3%	3.7%
P1-128A	Headquarters Complex at Plant No. 1	Swinerton Builders	05/26/2021	\$102,544,973	\$840,310	\$103,385,283	49.5%	5.0%	5.0%	0.8%	4.2%
P1-133	Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1	Shimmick Construction	02/23/2022	\$6,275,000	\$0	\$6,275,000	13.3%	10.0%	10.0%	0.0%	10.0%
P1-134	South Perimeter Security and Utility Improvements at Plant No.1	Tovey-Shultz Construction, Inc.	07/28/2021	\$4,396,779	\$163,086	\$4,559,865	88.4%	10.0%	10.0%	3.7%	6.3%
P2-122	Headworks Modifications at Plant No. 2 for GWRS Final Expansion	Shimmick Construction	01/22/2020	\$14,487,735	\$679,240	\$15,166,975	97.6%	10.0%	10.0%	4.7%	5.3%
P2-123	Return Activated Sludge Piping Replacement at Plant 2	Shimmick Construction	09/25/2019	\$6,042,110	\$304,477	\$6,346,587	100.0%	10.0%	10.0%	5.0%	5.0%
P2-98A	A-Side Primary Clarifiers Replacement at Plant 2	PCL CONSTRUCTION INC.	05/26/2021	\$111,405,880	\$321,135	\$111,727,015	21.4%	6.0%	6.0%	0.3%	5.7%

Table 1 - Active Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount				Contingency			
				Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining
SC19-03	Return Activated Sludge Pump Station Elevator Rehabilitation at Plant No. 2	OTIS	12/16/2020	\$432,400	\$0	\$432,400	0.0%	20.0%	20.0%	0.0%	20.0%
			Total	\$733,149,156	\$13,855,996	\$747,005,151					

Table 2 - Active GM Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount			
				Award	Change Orders	Current	% Spent
FE21-02	Lighting Improvements Boiler and Sludge Dewatering Areas at Plant No. 1	Leed Electric	05/03/2022	\$81,897	\$0	\$81,897	100.0%
FR2-0022	Digester O Structural Repairs at Plant No. 2	Jamison Engineering	03/14/2022	\$89,500	\$0	\$89,500	0.0%
FR2-0025	Digester O-T and Q-R Bridge Repair at Plant No. 2	O'Connell Engineering & Construction, Inc.	03/14/2022	\$115,450	\$0	\$115,450	0.0%
FRC-0009	Bitter Point Trunk Sewer Repair at Bitter Point Pump Station	Charles King Company	10/13/2022	\$275,000	\$0	\$275,000	0.0%
FRC-0012	Springdale-Relief Concrete Encasement Extension at Wintersburg-Channel	J.F. Shea Construction, Inc.	07/07/2021	\$167,694	\$0	\$167,694	0.0%
MP2-002	Ella Tunnel Walkway Replacement at Plant 2	O'Connell Engineering & Construction, Inc.	10/20/2022	\$49,450	\$0	\$49,450	0.0%
P1-132	Uninterruptable Power Supply Improvements at Plant 1	Leed Electric	12/15/2022	\$5,765,789	\$0	\$5,765,789	0.0%
			Total	\$6,544,780	\$0	\$6,544,780	

Table 3 - Active Operations Committee Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount			
				Award	Change Orders	Current	% Spent
FE18-16	Truck Loading Basement Drain Modifications at Plant No. 1	MMC, Inc.	10/06/2021	\$162,500	\$13,814	\$176,314	100.0%
FE19-13	VFD Replacements at Seal Beach Pump Station	Energy Management Corporation	03/23/2022	\$138,650	\$0	\$138,650	0.0%
FR1-0014	Laboratory Building HVAC Controls Replacement at Plant No. 1	Retrofit Service Company, Inc.	02/02/2022	\$176,847	\$14,246	\$191,093	95.4%
			Total	\$477,997	\$28,060	\$506,057	

Table 4 - Closed Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Closed Date	Contract Amount			Contingency		
					Award	Change Orders	Final	Original	Final	Unused
FR1-0008	Trickling Filter 480 Volt Cable Replacement at Plant No. 1	Baker Electric	12/15/2021	10/03/2022	\$251,586	\$27,140	\$278,726	20.0%	20.0%	9.2%
				Total	\$251,586	\$27,140	\$278,726			

Table 5 - Closed GM-Awarded Construction Contracts

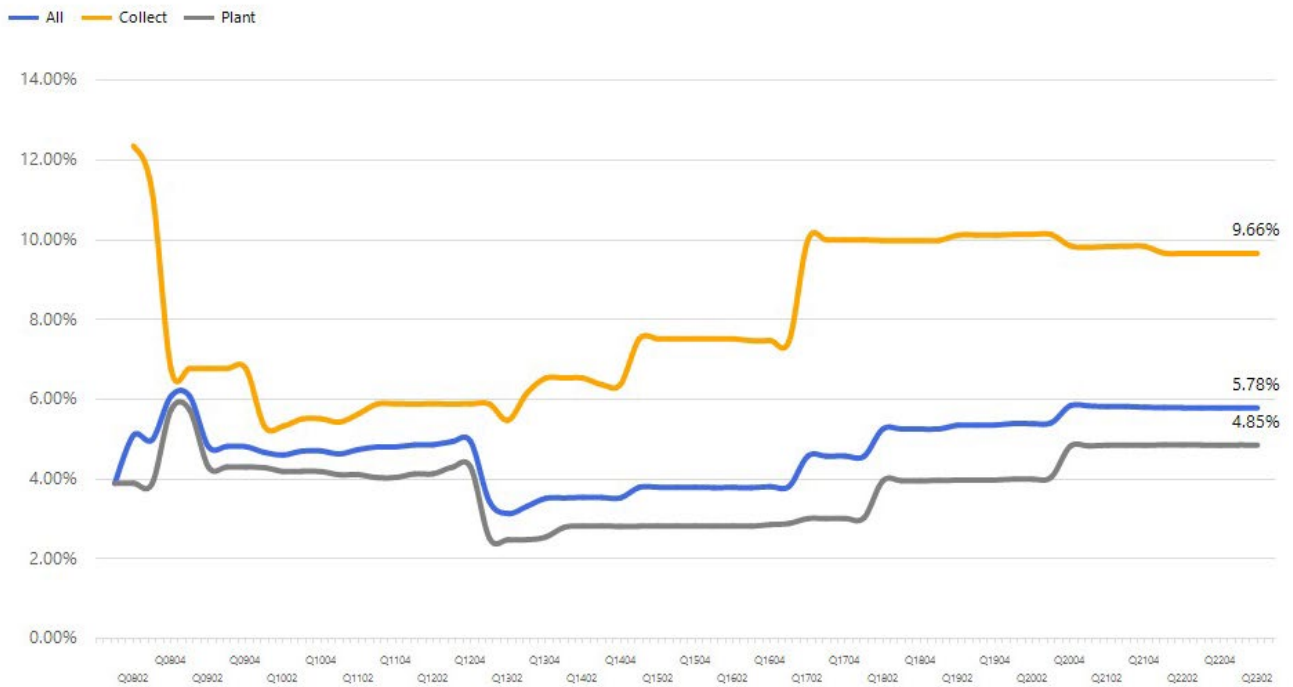
Project/Contract	Contractor	Award Date	Closed Date	Original Award Amount	Change Orders	Final Contract Amount	Final Change Order Rate
No GM-awarded construction contract closed this quarter							

Table 6 - Closed Committee -Awarded Construction Contracts

Project/Contract	Contractor	Award Date	Closed Date	Original Award Amount	Change Orders	Final Contract Amount	Final Change Order Rate
No Committee-awarded construction contract closed this quarter							

When the Orange County Sanitation District (OC San) Board awards a construction contract, they also approve a contingency which allows the General Manager to approve contract change orders up to the amount of the contingency. One purpose of this report is to document how much of the contingency is utilized. A contract's change order rate is only meaningful when the work is completed. As such, the change order performance charts in this report are based only on contracts closed since the Board began approving contingencies in 2008. The following chart shows how cumulative change order rates have changed for plant, collections, and all contracts since the contingency system was implemented.

Cumulative Change Order Rates
 Closed Construction Contracts



PART 2 – ENGINEERING SERVICES AGREEMENTS

OC San engages engineering consultants through Professional Service Agreements (PSAs), Professional Design Services Agreements (PDSAs), Professional Construction Services Agreements (PCSAs), and Master Professional Services Agreements (Master Agreements). PDSAs are used to obtain design engineering services, and PCSAs are a subsequent agreement with the design consultant to provide support services during construction. PSAs are used for planning studies and other consultant assignments. There are currently 19 firms with active engineering services agreements, not including firms with Master Agreements.

Master Agreements are issued to a pool of pre-qualified consultants for smaller projects. On those smaller projects, OC San solicits task order proposals from interested firms and awards a task order to the most qualified consultant. There are currently five sets of Master Agreements.

- 2017 Master Agreements for On-Call Planning Studies (expired)
- 2018 Master Professional Design Services Agreements (expired)
- 2020 Master Agreements for On-Call Planning Studies
- 2021 Master Professional Design Services Agreements
- Agreement for Design Installation, Implementation and Maintenance of a Process Control System

The 2017 Master Agreements for On-Call Planning Studies and the 2018 Master Professional Design Services Agreements have expired, meaning no new task orders can be issued under them, but previously issued task orders remain active until completed. Task Orders are limited by OC San Ordinance No. OCSD-56 to \$300,000 per task order.

A status table for all Active Engineering Services Agreements (PDSAs, PCSAs and PSAs) is attached under Table 7 and a status table for all Active Task Orders by Master Agreement is attached under Table 8 (Master Agreements).

Table 7 - Active Engineering Services Agreements

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
1-23	Santa Ana Trunk Sewer Rehabilitation	Stantec Consulting Services, Inc.	PDSA	04/27/2022	\$3,880,000	\$0	\$3,880,000	16%	10.0%	10.0%	0.0%	10.0%
1-24	Greenville Trunk Improvements	Brown and Caldwell	PDSA	10/31/2022	\$4,730,000	\$0	\$4,730,000	0%	10.0%	10.0%	0.0%	10.0%
2-49	Taft Branch Improvements	Woodard & Curran, Inc.	PDSA	02/24/2021	\$2,200,000	\$55,000	\$2,255,000	58%	10.0%	10.0%	2.5%	7.5%
2-72B	Newhope-Placentia Trunk Replacement, Segment B	Lee & Ro, Inc.	PCSA	03/23/2016	\$3,253,946	\$0	\$3,253,946	72%	10.0%	10.0%	0.0%	10.0%
3-62	Westminster Blvd Force Main Replacement	Stantec Consulting Services, Inc.	PCSA	12/18/2019	\$1,183,000	\$0	\$1,183,000	41%	10.0%	10.0%	0.0%	10.0%
3-64	Rehabilitation of Western Regional Sewers	AECOM Technical Services, Inc.	PDSA	01/27/2016	\$17,639,250	\$195,850	\$17,835,100	63%	10.0%	10.0%	1.1%	8.9%
3-64B	Los Alamitos Trunk Sewer Rehabilitation	AECOM Technical Services, Inc.	PCSA	05/26/2021	\$610,000	\$0	\$610,000	35%	10.0%	10.0%	0.0%	10.0%
3-67	Seal Beach Pump Station Replacement	Lee & Ro, Inc.	PDSA	12/18/2019	\$5,947,850	\$378,610	\$6,326,460	97%	10.0%	12.6%	6.4%	6.2%
5-67	Bay Bridge Pump Station Replacement	Arcadis U.S., Inc.	PDSA	10/25/2017	\$7,137,000	\$1,779,825	\$8,916,825	57%	10.0%	35.0%	24.9%	10.1%
5-68	Newport Beach Pump Station Pressurization Improvements	Dudek	PDSA	05/27/2020	\$542,988	\$0	\$542,988	84%	10.0%	10.0%	0.0%	10.0%
6-20	Fairview Trunk Rehabilitation	Dudek	PDSA	07/27/2022	\$1,200,000	\$0	\$1,200,000	5%	10.0%	10.0%	0.0%	10.0%
7-65	Gisler-Red Hill Interceptor and Baker Force Main Rehabilitation	CDM Smith Inc.	PDSA	09/23/2020	\$1,754,000	\$175,400	\$1,929,400	98%	10.0%	10.0%	10.0%	0.0%
7-66	Sunflower and Red Hill Interceptor Repairs	GHD, Inc.	PCSA	07/28/2021	\$166,000	\$0	\$166,000	39%	10.0%	10.0%	0.0%	10.0%

Table 7 - Active Engineering Services Agreements

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
7-68	MacArthur Force Main Improvements	Michael Baker International, Inc.	PDSA	05/26/2021	\$500,000	\$0	\$500,000	86%	10.0%	10.0%	0.0%	10.0%
FR1-0007	Control Center Offices and Day Training Room Remodeling at Plant No. 1	AECOM Technical Services, Inc.	PSA	07/24/2017	\$48,000	\$33,351	\$81,351	11%	N/A	N/A	69.5%	N/A
J-117B	Outfall Low Flow Pump Station	SEL Engineering Services Inc.	PSA	11/23/2022	\$1,096,074	\$0	\$1,096,074	61%	10.0%	10.0%	0.0%	10.0%
J-117B	Outfall Low Flow Pump Station	Brown and Caldwell	PCSA	12/19/2018	\$8,563,913	\$692,120	\$9,256,033	58%	10.0%	10.0%	8.1%	1.9%
J-124	Digester Gas Facilities Replacement	Brown and Caldwell	PDSA	11/15/2017	\$11,770,000	\$1,101,466	\$12,871,466	98%	10.0%	10.0%	9.4%	0.6%
J-98	Electrical Power Distribution System Improvements	Schweitzer Engineering Laboratories, Inc	PSA	03/25/2020	\$1,296,878	\$0	\$1,296,878	13%	10.0%	10.0%	0.0%	10.0%
J-98	Electrical Power Distribution System Improvements	Brown and Caldwell	PDSA	02/26/2020	\$2,240,000	\$92,078	\$2,332,078	91%	10.0%	10.0%	4.1%	5.9%
P1-105	Headworks Rehabilitation at Plant 1	Carollo Engineers, Inc	PCSA	03/02/2021	\$16,500,000	\$0	\$16,500,000	23%	10.0%	10.0%	0.0%	10.0%
P1-126	Primary Sedimentation Basins No. 3-5 Replacement at Plant No. 1	Black & Veatch	PDSA	04/27/2022	\$14,163,000	\$0	\$14,163,000	2%	10.0%	10.0%	0.0%	10.0%
P1-128A	Headquarters Complex at Plant No. 1	HDR Engineering, Inc.	PCSA	05/26/2021	\$4,900,000	\$356,181	\$5,256,181	51%	10.0%	10.0%	7.3%	2.7%
P1-128A	Headquarters Complex at Plant No. 1	AECOM Technical Services, Inc.	PSA	04/28/2021	\$6,750,000	\$0	\$6,750,000	49%	10.0%	10.0%	0.0%	10.0%

Table 7 - Active Engineering Services Agreements

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
P1-132	Uninterruptable Power Supply Improvements at Plant 1	Tetra Tech, Inc.	PDSA	10/23/2019	\$784,630	\$62,755	\$847,385	96%	10.0%	10.0%	8.0%	2.0%
P1-133	Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1	Carollo Engineers, Inc	PCSA	03/23/2022	\$530,000	\$0	\$530,000	7%	10.0%	10.0%	0.0%	10.0%
P1-134	South Perimeter Security and Utility Improvements at Plant No.1	HDR Engineering, Inc.	PCSA	07/28/2021	\$235,000	\$0	\$235,000	40%	10.0%	10.0%	0.0%	10.0%
P1-137	Supports Buildings Seismic Improvements at Plant No. 1	Simpson, Gumpertz, and Heger	PDSA	07/27/2022	\$1,900,000	\$0	\$1,900,000	0%	0.0%	10.0%	0.0%	10.0%
P2-122	Headworks Modifications at Plant No. 2 for GWRS Final Expansion	CDM Smith Inc.	PCSA	01/15/2020	\$2,200,000	\$0	\$2,200,000	71%	10.0%	10.0%	0.0%	10.0%
P2-123	Return Activated Sludge Piping Replacement at Plant 2	Spec Services, Inc.	PCSA	09/25/2019	\$252,329	\$25,233	\$277,562	100%	10.0%	10.0%	10.0%	0.0%
P2-124	Interim Food Waste Receiving Facility	Kennedy/Jenks Consultants, Inc.	PDSA	09/05/2018	\$695,000	\$31,168	\$726,168	100%	10.0%	10.0%	4.5%	5.5%
P2-128	TPAD Digester Facility at Plant No.2	Brown and Caldwell	PDSA	07/22/2020	\$39,300,000	\$1,202,803	\$40,502,803	37%	10.0%	10.0%	3.1%	6.9%
P2-137	Digesters Rehabilitation at Plant No. 2	CDM Smith Inc.	PDSA	03/23/2022	\$2,650,000	\$0	\$2,650,000	21%	10.0%	10.0%	0.0%	10.0%
P2-98A	A-Side Primary Clarifiers Replacement at Plant 2	Black & Veatch	PCSA	05/26/2021	\$8,400,000	\$0	\$8,400,000	22%	10.0%	10.0%	0.0%	10.0%

Table 7 - Active Engineering Services Agreements

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
PS18-09	Ocean Outfall Condition Assessment and Scoping Study	Carollo Engineers, Inc	PSA	03/25/2020	\$2,744,000	\$885,661	\$3,629,661	85%	10.0%	40.0%	32.3%	7.7%
PS20-02	Collection System Flow Level Monitoring Study	Woodard & Curran, Inc.	PSA	07/28/2021	\$616,562	\$0	\$616,562	23%	0.0%	10.0%	0.0%	10.0%
PS20-05	Cen Gen Pressure Vessel Integrity Assessment at Plant Nos. 1 and 2	Pond & Company	PSA	02/23/2022	\$235,133	\$0	\$235,133	25%	10.0%	10.0%	0.0%	10.0%
PS21-01	Exterior Lighting Study at Plant Nos. 1 and 2	IDS Group, Inc.	PSA	10/17/2022	\$151,660	\$0	\$151,660	0%	10.0%	10.0%	0.0%	10.0%
PS21-04	Energy and Digester Gas Master Plan	Brown and Caldwell	PSA	06/22/2022	\$1,438,036	\$0	\$1,438,036	6%	10.0%	10.0%	0.0%	10.0%
Total					\$180,204,249	\$7,067,501	\$187,271,750					

Table 8 - Active Task Orders by Master Agreement

Agreement/Project		Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	% Spent
2017 Master Agreements for On-Call Planning Studies							
PS19-03	Laboratory Rehabilitation Feasibility Study	HDR Engineering, Inc.	10/20/2020	\$274,888	\$0	\$274,888	76%
2018 Master Professional Design Service Agreements							
FE18-06	CenGen Instrument Air Compressors Replacement at Plant No. 1	IDS Group, Inc.	04/27/2020	\$89,876	\$0	\$89,876	69%
FE18-13	Redhill Relief Sewer Relocation at State Route 55	GHD, Inc.	03/27/2020	\$168,612	\$105,331	\$273,943	82%
FE18-14	Plant Water Pipeline Replacement in Kinnison, Lindstrom, and Scott Tunnels at Plant No. 2	Dudek	11/06/2019	\$108,308	\$0	\$108,308	96%
FE18-15	Plant Boiler System Relief at Plant No. 2	IDS Group, Inc.	10/22/2019	\$23,299	\$0	\$23,299	35%
FE18-16	Truck Loading Basement Drain Modifications at Plant No. 1	GHD, Inc.	12/04/2019	\$70,130	\$18,365	\$88,495	92%
FE18-19	12KV Distribution B and East RAS Pump Station Roofing Replacement	HDR Engineering, Inc.	09/16/2019	\$74,771	\$8,672	\$83,443	87%
FE18-20	DAFT Air Compressors Replacement at Plant No. 1	HDR Engineering, Inc.	09/02/2020	\$243,954	\$11,982	\$255,936	82%
FE19-02	Cengen Plant Water Pipe Replacement at Plant No. 1	AECOM Technical Services, Inc.	07/08/2020	\$156,498	\$143,378	\$299,876	40%
FE19-03	Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1	Black & Veatch	09/02/2020	\$244,728	\$55,272	\$300,000	97%
FE19-06	EPSA Motor Cooling Improvements at Plant No. 2	IDS Group, Inc.	05/06/2020	\$88,206	\$0	\$88,206	96%
FE19-10	Digesters C, D, F, G and I Gas Balance Lines Replacement at Plant No. 2	GHD, Inc.	02/03/2021	\$25,000	\$58,000	\$83,000	71%
FE19-11	Primary Clarifiers Nos. 6-31 Lighting and Alarm Improvements at Plant No. 1	AECOM Technical Services, Inc.	09/21/2020	\$226,685	\$6,137	\$232,822	73%
FE19-13	VFD Replacements at Seal Beach Pump Station	AECOM Technical Services, Inc.	03/24/2021	\$78,033	\$0	\$78,033	60%
FE20-01	Wastehauler Station Safety and Security Improvements	AECOM Technical Services, Inc.	03/16/2021	\$161,012	\$16,247	\$177,259	77%
FE20-02	Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2	HDR Engineering, Inc.	03/16/2021	\$188,212	\$22,396	\$210,608	89%
FE20-03	Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1	GHD, Inc.	06/30/2021	\$249,000	\$0	\$249,000	78%

Table 8 - Active Task Orders by Master Agreement

Agreement/Project		Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	% Spent
FE20-04	Cengen Cooling Water Pipe Replacement at Plant No. 2	Dudek	06/01/2021	\$240,000	\$60,000	\$300,000	91%
FE20-05	Plant Water Piping Replacement at Secondary Clarifiers 1-26 at Plant No. 1	IDS Group, Inc.	06/22/2021	\$186,626	\$0	\$186,626	75%
FE20-07	Santa Ana Trunk Rehabilitation at Plant No. 1	GHD, Inc.	05/04/2021	\$100,625	\$0	\$100,625	88%
FE20-08	Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River	Dudek	06/21/2021	\$240,000	\$0	\$240,000	84%
FE20-09	CenGen Smoke Detection Improvements at Plant No. 1 and No. 2	IDS Group, Inc.	06/30/2021	\$63,275	\$0	\$63,275	80%
FR1-0011	VFD Replacements at Plant No. 1	Black & Veatch	04/08/2021	\$283,000	\$17,000	\$300,000	83%
FR2-0013	P2 Trickling Filter Sludge Pump Room Exhaust Fan Relocation at Plant No.2	AECOM Technical Services, Inc.	11/06/2019	\$75,120	\$0	\$75,120	100%
FR2-0022	Digester O Structural Repairs at Plant No. 2	AECOM Technical Services, Inc.	04/12/2021	\$46,115	\$0	\$46,115	98%
FRC-0009	Bitter Point Trunk Sewer Repair at Bitter Point Pump Station	GHD, Inc.	06/17/2021	\$159,451	\$0	\$159,451	74%
J-127	Natural Gas Pipelines Replacement at Plant Nos. 1 and 2	Black & Veatch	01/21/2019	\$271,964	\$28,036	\$300,000	100%
P1-135	Digester Ferric Chloride Piping Replacement at Plant No. 1	Dudek	02/19/2020	\$127,174	\$0	\$127,174	100%
2020 Master Agreements for On-Call Planning Studies							
PS20-01	Collections Yard Relocation Feasibility Study	AECOM Technical Services, Inc.	09/09/2021	\$147,181	\$0	\$147,181	100%
PS20-03	Truck Loading Bay Odor Control Improvements Study at Plant No. 2	Hazen and Sawyer	08/03/2021	\$226,021	\$0	\$226,021	100%
PS20-04	Power Generation Overhaul Feasibility Study	Brown and Caldwell	04/26/2021	\$122,748	\$101,518	\$224,266	90%
PS20-07	College Pump Station Wet Well Condition Assessment Study	HDR Engineering, Inc.	01/18/2022	\$182,297	\$0	\$182,297	63%
PS20-09	Thickening & Dewatering Plant Water Study at Plant No. 1	HDR Engineering, Inc.	04/21/2022	\$219,670	\$0	\$219,670	30%
PS21-03	Process Model for Denitrification Alternatives at Activated Sludge 1	HDR Engineering, Inc.	01/18/2022	\$25,000	\$0	\$25,000	100%
PS21-08	Pure Oxygen Activated Sludge Operations Study at Plant No. 2	Hazen and Sawyer	09/22/2022	\$241,791	\$0	\$241,791	0%

Table 8 - Active Task Orders by Master Agreement

Agreement/Project		Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	% Spent
PS22-03	CEQA/MMRP Measures Review	HDR Engineering, Inc.	11/28/2022	\$24,963	\$0	\$24,963	0%
RE20-02	Chemical Resilience Study at Plant No.1 and 2	Hazen and Sawyer	06/02/2021	\$278,784	\$0	\$278,784	105%
2021 Master Professional Design Service Agreements							
FE21-05	Warehouse Stations and Demolition at Plant No. 2	ProjectLine Technical Services. Inc.	04/28/2022	\$228,328	\$28,508	\$256,836	65%
FR1-0017	Trickling Filter Valve Replacement at Plant No. 1	Dudek	08/16/2022	\$101,108	\$0	\$101,108	38%
FR1-0018	Dewatering Centrifuge Diverter Gate Improvements at Plant No. 1	Dudek	08/16/2022	\$140,000	\$0	\$140,000	3%
FR2-0023	Activated Sludge Clarifier Entry Improvements at Plant No. 2	AECOM Technical Services, Inc.	01/13/2022	\$120,030	\$79,828	\$199,858	48%
FR2-0027	Heavy Mechanics Group Office Space Upgrade at Plant No. 2	ProjectLine Technical Services. Inc.	09/13/2022	\$126,153	\$0	\$126,153	16%
FRC-0010	Warner Avenue Vault Cover Improvements	Kleinfelder, Inc.	07/01/2021	\$205,000	\$0	\$205,000	78%
FRJ-0003	Interplant Gas Line Blow Off Vault Repairs	Dudek	09/08/2022	\$165,000	\$0	\$165,000	7%
P2-127	Collections Yard Relocation	ProjectLine Technical Services. Inc.	08/02/2022	\$188,898	\$0	\$188,898	50%
SC19-06	EPSA Standby Power Generator Control Upgrades at Plant No. 2	Spec Services, Inc.	11/03/2021	\$241,153	\$58,847	\$300,000	38%
			Total	\$7,248,687	\$819,517	\$8,068,204	

PART 3 – MASTER BUDGET PROJECTS

The Board-adopted budget for Fiscal Years 2022-23 and 2023-24 includes master program budgets that allow staff to initiate, execute, and manage smaller projects that fit within the scope of a particular program more quickly. The projects chartered under these program budgets are referred to as sub-projects and are managed to the same standards as projects specifically listed in the adopted budget. A status table for each of these programs listing the sub-projects is attached.

Master Program Title	Status Table
Planning Studies Program	Table 9
Research Program	Table 10
Small Construction Projects Program	Table 11
Information Technology Capital Program	Table 12
Operations & Maintenance Capital Program	Table 13

Table 9 – Planning Studies Status Report

Project Number	Project Name	Allocated Budget
PS18-06	Go/No-Go Lights and Signage	\$495,000
PS18-09	Ocean Outfall Condition Assessment and Scoping Study	\$4,205,117
PS19-03	Laboratory Rehabilitation Feasibility Study	\$450,000
PS20-01	Collections Yard Relocation Feasibility Study	\$375,000
PS20-02	Collection System Flow Level Monitoring Study	\$743,218
PS20-03	Truck Loading Bay Odor Control Improvements Study at Plant No. 2	\$383,682
PS20-04	Power Generation Overhaul Feasibility Study	\$320,000
PS20-05	Cen Gen Pressure Vessel Integrity Assessment at Plant Nos. 1 and 2	\$400,000
PS20-07	College Pump Station Wet Well Condition Assessment Study	\$365,000
PS20-08	Euclid Trunk Sewer Hydraulic Modeling and Odor Control Analyses	\$500,000
PS20-09	Thickening & Dewatering Plant Water Study at Plant No. 1	\$400,000
PS21-01	Exterior Lighting Study at Plant Nos. 1 and 2	\$345,533
PS21-02	Public Announcement and Fire System at Plant Nos. 1 and 2	\$500,000
PS21-04	Energy and Digester Gas Master Plan	\$1,785,000
PS21-05	CAD Design Manual Update for 3D Design	\$758,000
PS21-06	Urban Runoff Optimization Study	\$1,000,000
PS21-07	Process Simulation Model Development for Cen Gen Facilities	\$121,000
PS21-08	Pure Oxygen Activated Sludge Operations Study at Plant No. 2	\$360,000
PS21-10	Sidestream Nitrogen Management	\$211,000
PS22-02	Onsite Oxygen Generation Feasibility Study at Plant No. 2	\$220,000
PS22-03	CEQA/MMRP Measures Review	\$40,000
Grand Total		\$13,977,550

21 Chartered Projects

\$13,977,550 Allocated Budget

\$14,674,450 Remaining Budget

\$28,652,000
Board Approved Program Budget

Table 10 - Research Program Status Report

Project Number	Project Name	Allocated Budget
RE19-01	Primary Scum Equipment Evaluation at Plant No. 1	\$40,825
RE20-02	Chemical Resilience Study at Plant No.1 and 2	\$329,996
RE20-04	Holding Digester 6 Solids Shredder Study at Plant No. 1	\$95,000
RE20-06	Co-Thickened Sludge Pump Trial at Plant No. 1	\$160,000
RE21-01	Supercritical Water Oxidation Demonstration at Plant No. 1	\$8,692,329
Grand Total		\$9,318,150

5 Chartered Projects

\$9,318,150 Allocated Budget

(\$818,150) Remaining Budget

\$8,500,000
Board Approved Program Budget

Table 11 - Small Construction Projects Program Status Report

Project Number	Project Name	Allocated Budget
FE10-21	Area 02 Craig Regional Park Manhole Improvements	\$1,359,000
FE17-03	Battery Storage System at Plant No. 1	\$650,000
FE17-05	Plant 1 ICS Network Extension	\$1,050,000
FE18-06	CenGen Instrument Air Compressors Replacement at Plant No. 1	\$1,150,000
FE18-11	Headworks Explosive Gas Monitoring Systems at Plant No. 1 and No. 2	\$605,000
FE18-13	Redhill Relief Sewer Relocation at State Route 55	\$3,550,000
FE18-14	Plant Water Pipeline Replacement in Kinnison, Lindstrom, and Scott Tunnels at Plant No. 2	\$1,895,000
FE18-15	Plant Boiler System Relief at Plant No. 2	\$560,000
FE18-16	Truck Loading Basement Drain Modifications at Plant No. 1	\$592,000
FE18-20	DAFT Air Compressors Replacement at Plant No. 1	\$1,360,000
FE19-01	Pump Station Portable Generator Connectors	\$2,570,000
FE19-02	Cengen Plant Water Pipe Replacement at Plant No. 1	\$4,165,000
FE19-03	Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1	\$3,200,000
FE19-04	Sunflower Pump Replacement at Plant No. 1	\$4,300,000
FE19-06	EPSA Motor Cooling Improvements at Plant No. 2	\$1,475,000
FE19-08	Secondary Treatment VFD Replacements at Plant No. 2	\$2,900,000
FE19-09	Newhope - Placentia Trunk Grade Separation Replacement Repairs	\$500,000
FE19-10	Digesters C, D, F, G and I Gas Balance Lines Replacement at Plant No. 2	\$1,200,000
FE19-11	Primary Clarifiers Nos. 6-31 Lighting and Alarm Improvements at Plant No. 1	\$1,250,000
FE19-12	Rebuild Shop Fume Extractor Installation at Plant No 1	\$560,000
FE19-13	VFD Replacements at Seal Beach Pump Station	\$520,000
FE20-01	Wastehauler Station Safety and Security Improvements	\$2,671,500
FE20-02	Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2	\$3,950,000
FE20-03	Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1	\$6,840,000
FE20-04	Cengen Cooling Water Pipe Replacement at Plant No. 2	\$5,380,000
FE20-05	Plant Water Piping Replacement at Secondary Clarifiers 1-26 at Plant No. 1	\$1,545,000
FE20-06	Thickening and Dewatering Building Pipe Support Improvements at Plant No. 1	\$1,500,000
FE20-07	Santa Ana Trunk Rehabilitation at Plant No. 1	\$765,000
FE20-08	Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River	\$2,800,000
FE20-09	CenGen Smoke Detection Improvements at Plant No. 1 and No. 2	\$950,000
FE21-01	Plasma Cutting Fume Extractor installation at Plant No. 1 Rebuild Shop	\$277,000
FE21-02	Lighting Improvements Boiler and Sludge Dewatering Areas at Plant No. 1	\$320,000
FE21-04	Thickening and Dewatering Facility Handrail Installation at Plant No. 1	\$230,000

Table 11 - Small Construction Projects Program Status Report

Project Number	Project Name	Allocated Budget
FE21-05	Warehouse Stations and Demolition at Plant No. 2	\$2,200,000
FE21-06	Chemical Dosing Station Installation at Westside Pump Station	\$560,000
FE21-07	Liquid Oxygen Tank A Replacement at Plant No. 2	\$5,200,000
FE21-08	Newhope-Placentia Sewer Manhole Replacements	\$1,225,000
FE22-01	Platform Modifications for Process Areas at Plant No. 1 and No. 2	\$1,300,000
Grand Total		\$73,124,500

38 Chartered Projects

\$73,124,500 Allocated Budget

\$16,875,500 Remaining Budget

\$90,000,000
Board Approved Program Budget

Table 12 – Information Technology Capital Program Status Report

Project Number	Project Name	Allocated Budget
IT18-09	Records Management Information System	\$290,530
IT19-01	IT Safety VPP Systems (IT19-01)	\$210,000
IT19-05	IT P1 & P2 Data Refresh (IT19-05)	\$1,200,000
IT20-05	Client Management Modernization (ICE-69_IT20-05) 6520005	\$99,000
IT20-06	Nintex Workflow Cloud Implementation (ICE-75_IT20-06) 6520006	\$350,000
IT20-07	Professional Services for Valo/SharePoint (ICE-74_IT20-07) 6520007	\$100,000
IT20-08	Field Computer for Nerissa and Interface with LIMS(ICE-68_IT20-07) 6520008	\$121,000
IT20-09	ITSM Migration (ICE-70_IT20-09) 6520009	\$797,000
IT20-10	Digitize Quality Assurance Tracking Processes/TNI/ELAP Standards (ICE-76_IT20-10) 6520010	\$145,700
IT20-12	Web-based Cloud Proxy Security with an Isolation Platform (ICE-78_6520012)	\$50,000
IT21-01	Access Network Equipment Obsolescence Replacement (ICE-79_IT21-01) 6521001	\$1,249,500
IT21-02	Hyper Converged Infrastructure for Plant 1 ICS network (ICE-80 IT21-02) 6521002	\$610,000
IT21-03	Door Access Control System for P2 Construction Management Trailers (ICE-83_IT21-036521003	\$79,706
IT21-04	Databridge Scale Management Software (ICE - 84_IT21-04)	\$39,263
IT21-05	JD Edwards Server Migration and Upgrade (ICE - 86_IT21-05)	\$88,000
IT21-06	Dig-Smart Fusion (ICE - 89_I6521006_T21-06)	\$27,000
IT21-07	Advanced Email Security (ICE - 90_I6521007_T21-07)	\$50,000
IT22-01	Fortigate Firewall Replacement (ICE - 92_IT22-01)	\$275,000
IT22-02	Two Routers and Two Switches for Dual ISPs (ICE - 94_IT22-02)	\$80,000
Grand Total		\$5,861,699

19 Chartered Projects

\$5,861,699 Allocated Budget

\$4,138,301 Remaining Budget

\$10,000,000
Board Approved Program Budget

Table 13 - Operations & Maintenance Capital Program Status Report

Project Number	Project Name	Allocated Budget
SC19-03	Return Activated Sludge Pump Station Elevator Rehabilitation at Plant No. 2	\$890,000
SC19-06	EPSA Standby Power Generator Control Upgrades at Plant No. 2	\$3,450,000
SC20-02	Ocean Outfall Booster Station Elevator Rehabilitation	\$410,000
Grand Total		\$4,750,000

3 Chartered Projects

\$4,750,000 Allocated Budget

\$10,872,000 Remaining Budget

\$15,622,000
Board Approved Program Budget

PART 4 – SUPPLEMENTAL ENGINEERING SERVICES CONTRACT

OC San has been utilizing Jacobs Project Management Co. to provide supplemental engineering and support staff services since an initial contract was approved by the Board in 2016. This existing contract will end in June 2023.

In April of 2022, the OC San Board of Directors approved two Professional Service Agreements - one with AECOM Technical Services, Inc. and one with Jacobs Project Management Co. - to provide Supplemental Engineering Services for a three-year period commencing May 1, 2022, through April 30, 2025, with two one-year renewal options. The Board approved the agreements for an amount not to exceed \$29,700,000 per individual agreement.

The benefits of using a supplemental engineering services contract, as opposed to hiring full-time staff or limited-term employees, include rapid mobilization of highly skilled/technical staff, flexibility to change the mix of staff positions on an immediate and as-needed basis, the ability to reduce staff as workloads decrease, access to technical experts to support special tasks, and access to staff with wastewater project experience.

A status table for the supplemental engineering services contract summary for the 2016 Supplemental Engineering Services Contract with Jacobs Project Management Co. is included below as Table 14a, and the Supplemental Engineering Services labor summary for the same contract can be found under Table 14b.

Table 14a – 2016 Supplemental Engineering Services Contract Status (Jacobs)

	Total Fees	Time
Contract	\$41,000,000	86 months
Actuals to Date	\$36,755,726 89.7%	80 Months 93%
Remaining	\$4,244,275 10.3%	6 months 7%

Table 14b – 2016 Supplemental Engineering Services Labor Summary (Jacobs)

	This Quarter	Inception to Date
Labor Hours	10,958	259,262
Full Time Equivalents	23	20
Labor Costs (no expenses)	\$1,763,574	\$36,043,752
Average Hourly Rate	\$161	\$139

Status tables for the supplemental engineering services contract summary for the 2022 Supplemental Engineering Services Contract with AECOM and Jacobs Project Management Co. and AECOM are included below as Tables 15a and 16a, respectively and the Supplemental Engineering Services labor summary for the same contracts can be found under Table 15b and 16b, respectively.

Table 15a – 2022 Supplemental Engineering Services Contract Status (AECOM)

	Total Fees		Time	
Contract	\$29,700,000		60 months ⁽¹⁾	
Actuals to Date	\$379,251	1.3%	8 Months	13%
Remaining	\$29,320,749	99.7%	52 months	87%

⁽¹⁾ Assuming two additional 1-year extensions

Table 15b – 2022 Supplemental Engineering Services Labor Summary (AECOM)

	This Quarter	Inception to Date
Labor Hours	1,424	2,237
Full Time Equivalents	3	2
Labor Costs (no expenses)	\$228,429	\$379,251
Average Hourly Rate	\$160.41	\$169.54

Table 16a – 2022 Supplemental Engineering Services Contract Status (Jacobs)

	Total Fees		Time	
Contract	\$29,700,000		60 months ⁽¹⁾	
Actuals to Date	\$636,226	2.14%	8 Months	13%
Remaining	\$29,063,774	97.86%	52 months	87%

⁽¹⁾ Assuming two additional 1-year extensions

Table 16b – 2022 Supplemental Engineering Services Labor Summary (Jacobs)

	This Quarter	Inception to Date
Labor Hours	2518	4003
Full Time Equivalents	5	4
Labor Costs (no expenses)	\$382,948	\$636,226
Average Hourly Rate	\$152	\$159

PART 5 – PROGRAMMING PROFESSIONAL SERVICES CONTRACT

In April of 2022, the OC San Board of Directors approved two Professional Service Agreements - one with Enterprise Automation and one with Maverick Technologies - to provide Programming Professional Services for a three-year period commencing May 11, 2022, through May 10, 2025, with two one-year renewal options. The Board approved the agreements for an amount not to exceed \$4,900,000 per individual agreement.

The programming professional services will program, test, commission, maintain, upgrade, and configure programmable logic controllers, HMI graphics, databases, servers, and networks for select projects. The benefits of using a programming professional services contract, as opposed to hiring full-time staff or limited-term employees, include the ability to provide the needed short-term resources during the execution of Project No. J-120, Process Control Systems Upgrades, rapid mobilization of highly skilled technical resources, flexibility to change the mix of needed resources to match project requirements, and the ability to increase or reduce project resources as workloads change.

Status tables for the programming professional services contract summary for the 2022 Programming Professional Services Contract with Enterprise Automation and Maverick Technologies are included below under Tables 17a and 18a, respectively and the Programming Professional Services labor summary for the same contracts can be found under Table 17b and 18b, respectively.

Table 17a – 2022 Programming Professional Services Contract Status (Enterprise Automation)

	Total Fees	Time
Contract	\$4,900,000	60 months ⁽¹⁾
Actuals to Date	\$344,028 7%	8 Months 13%
Remaining	\$4,555,972 93%	52 months 87%

⁽¹⁾ Assuming two additional 1-year extensions

Table 17b – 2022 Programming Professional Services Labor Summary (Enterprise Automation)

	This Quarter	Inception to Date
Labor Hours	1099	1694
Full Time Equivalent	2.1	1.4
Labor Costs (no expenses)	\$205,684	\$343,629
Average Hourly Rate	\$187	\$203

**Table 18a – 2022 Programming Professional Services Contract Status
(Maverick Technologies)**

	Total Fees		Time	
Contract	\$4,900,000		60 months	⁽¹⁾
Actuals to Date	\$27,820	1%	8 Months	13%
Remaining	\$4,872,180	99%	52 months	87%

⁽¹⁾ Assuming two additional 1-year extensions

**Table 18b – 2022 Programming Professional Services Labor Summary
(Maverick Technologies)**

	This Quarter	Inception to Date
Labor Hours	153	153
Full Time Equivalents	0.3	0.1
Labor Costs (no expenses)	\$27,820	\$27,820
Average Hourly Rate	\$182	\$182

PART 6 – ON-CALL SERVICES AGREEMENTS

OC San uses three sets of on-call services agreements for coating inspection and corrosion testing; materials testing, inspection, and other geotechnical testing; and surveying. Services are typically requested by inspection supervisors as needs arise, and the work is generally spread among the available firms.

Table 17 lists the contract limits and funds expended to date for each of the agreements which became effective in March 23, 2022 and will expire on April 30, 2025. For each of these services, OC San typically uses a single firm for a particular construction contract.

Table 17 - On Call Service Agreements Status Report

Consultant	Contract Limit	Total Costs Incurred	Remaining
Coating Inspection Services (PSA2022-001)			
CSI Services, Inc.	\$300,000	\$0	\$300,000
Diversified Project Services Int'l (DPSI)	\$300,000	\$27,385	\$272,615
Geotechnical Testing Services (PSA2022-003)			
AESCO	\$400,000	\$41,379	\$358,621
Atlas Technical Consultants	\$400,000	\$61,328	\$338,672
Koury Engineering and Testng, Inc.	\$400,000	\$52,902	\$347,098
MTGL, Inc	\$400,000	\$0	\$400,000
Surveying Services (PSA2022-002)			
D.Woolley & Associates	\$200,000	\$0	\$200,000
Michael Baker International, Inc.	\$200,000	\$1,726	\$198,275
Psomas	\$200,000	\$0	\$200,000
Stantec Consulting Services, Inc.	\$200,000	\$18,440	\$181,560