

DATE: November 21, 2022

TO: Orange County Sanitation District
Board of Directors

FROM: James D. Herberg, General Manager
Through: Kathy Millea, Director of Engineering

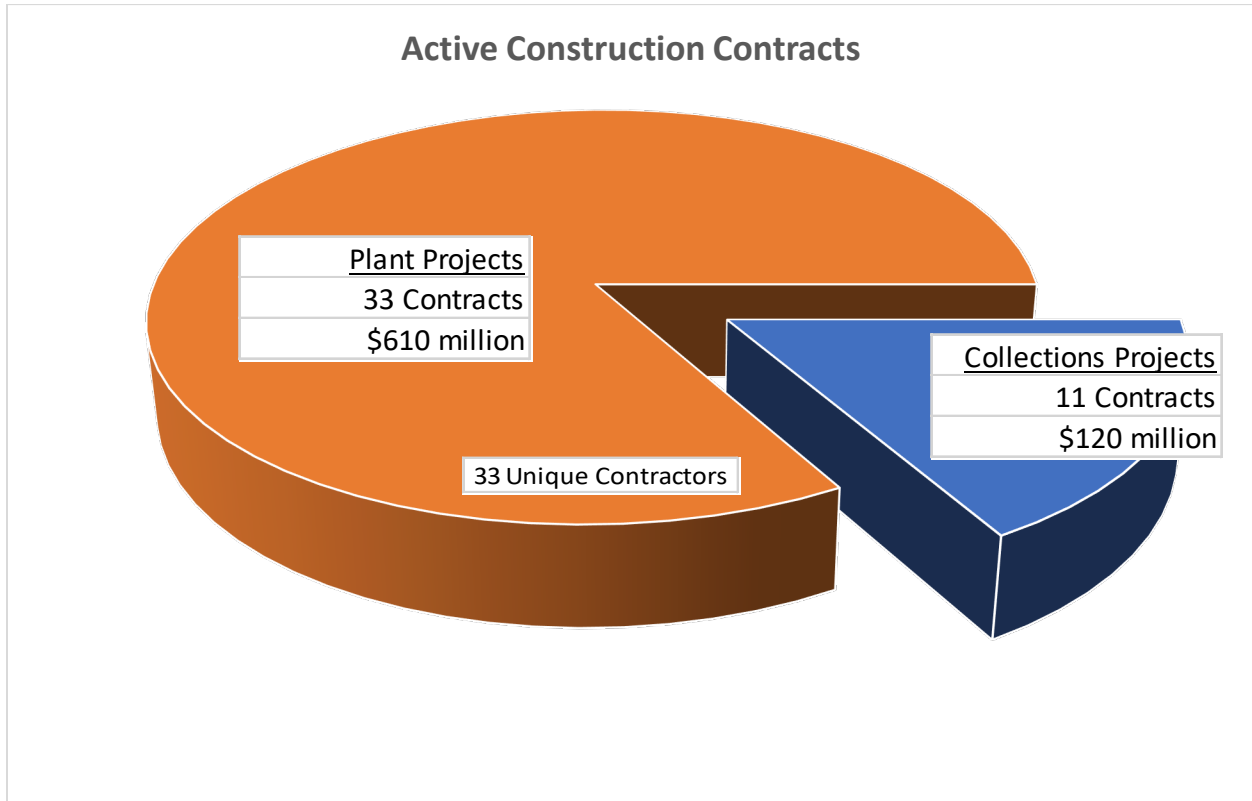
This report summarizes the status, activities, and performance of construction contracts and consultant agreements. This report also identifies the names and status of projects being performed under master budgets for planning studies, research, small construction projects, Operations & Maintenance capital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

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PART 1 - CONSTRUCTION CONTRACTS

Table 1 lists the Board-awarded construction contracts active as of September 30, 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.

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

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	\$1,041,852	\$28,784,852	88.4%	10.0%	10.0%	3.8%	6.2%
3-64B	Los Alamitos Trunk Sewer Rehabilitation	Steve P. Rados, Inc.	05/26/2021	\$17,775,000	\$0	\$17,775,000	33.3%	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	\$841	\$4,777,841	48.1%	10.0%	10.0%	0.0%	10.0%
FE10-21	Area 02 Craig Regional Park Manhole Improvements	Deark E&C, Inc.	07/28/2021	\$427,400	(\$4,037)	\$423,363	100.0%	10.0%	10.0%	-0.9%	10.9%
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	\$0	\$230,000	87.3%	15.0%	15.0%	0.0%	15.0%
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	\$0	\$778,000	16.5%	10.0%	10.0%	0.0%	10.0%
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	\$0	\$854,000	0.0%	10.0%	10.0%	0.0%	10.0%
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	07/28/2022	\$217,000	\$0	\$217,000	0.0%	10.0%	10.0%	0.0%	0.0%
FE20-06	Thickening and Dewatering Building Pipe Support Improvements at Plant No. 1	Garney Pacific, Inc.	02/23/2022	\$793,000	\$0	\$793,000	21.9%	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	0.0%	20.0%	20.0%	0.0%	20.0%
FR1-0007	Control Center Offices and Day Training Room Remodeling at Plant No. 1	Thomas Solar Energy	05/26/2021	\$256,790	\$0	\$256,790	17.9%	10.0%	10.0%	0.0%	10.0%
FR1-0012	Building B Floor Replacement, Jib Crane, and Forklift Pad	Vicon Enterprise	06/22/2022	\$220,000	\$0	\$220,000	0.0%	10.0%	10.0%	0.0%	10.0%

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

Table 1 - Active Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount				Contingency			
				Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining
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%
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	\$1,998,234	\$92,198,234	73.4%	8.0%	8.0%	2.2%	5.8%
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-135A	Central Generation Engine Overhaul at Plant No. 1	Cooper Machinery Services	03/24/2021	\$3,705,932	\$318,840	\$4,024,772	100.0%	20.0%	20.0%	8.6%	11.4%
J-135B	Engine and Generator Overhauls at Plant No. 1 and 2	Cooper Machinery Services	07/27/2022	\$29,361,029	\$0	\$29,361,029	0.0%	10.0%	10.0%	0.0%	10.0%
MP-305	Cengen Supply Air Fan Support Replacement at Plant No. 2	J.R. Filanc Construction Company, Inc.	12/16/2020	\$297,000	\$40,077	\$337,077	100.0%	15.0%	15.0%	13.5%	1.5%
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	\$267,120	\$222,597,120	16.2%	4.0%	4.0%	0.1%	3.9%
P1-128A	Headquarters Complex at Plant No. 1	Swinerton Builders	05/26/2021	\$102,544,973	\$579,344	\$103,124,317	32.5%	5.0%	5.0%	0.6%	4.4%
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	4.2%	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	\$116,485	\$4,513,264	66.1%	10.0%	10.0%	2.6%	7.4%
P1-135	Digester Ferric Chloride Piping Replacement at Plant No. 1	PPM Contracting	02/24/2021	\$515,000	\$5,608	\$520,608	91.7%	10.0%	10.0%	1.1%	8.9%
P2-122	Headworks Modifications at Plant No. 2 for GWRS Final Expansion	Shimmick Construction	01/22/2020	\$14,487,735	\$581,590	\$15,069,325	88.7%	10.0%	10.0%	4.0%	6.0%
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	19.1%	6.0%	6.0%	0.3%	5.7%

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

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	\$716,263,724	\$11,533,983	\$727,797,706					

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

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	4.8%
FR1-0008	Trickling Filter 480 Volt Cable Replacement at Plant No. 1	Baker Electric	12/15/2021	\$251,586	\$15,288	\$266,874	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	08/31/2022	\$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 No. 2	O'Connell Engineering & Construction, Inc.	09/21/2022	\$49,450	\$0	\$0	0.0%
			Total	\$981,127	\$15,288	\$996,415	

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

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	\$0	\$162,500	18.5%
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	\$8,229	\$185,076	81.7%
			Total	\$477,997	\$8,229	\$486,226	

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

Table 4 - Closed Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Closed Date	Contract Amount			Contingency		
					Award	Change Orders	Final	Original	Final	Unused
FE18-19	12KV Distribution B and East RAS Pump Station Roofing Replacement	O'Connell Engineering & Construction, Inc.	06/24/2020	08/30/2022	\$674,800	\$16,664	\$691,464	0.0%	10.0%	7.5%
				Total	\$674,800	\$16,664	\$691,464			

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

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
				Total				
No GM-awarded construction contract closed this quarter								

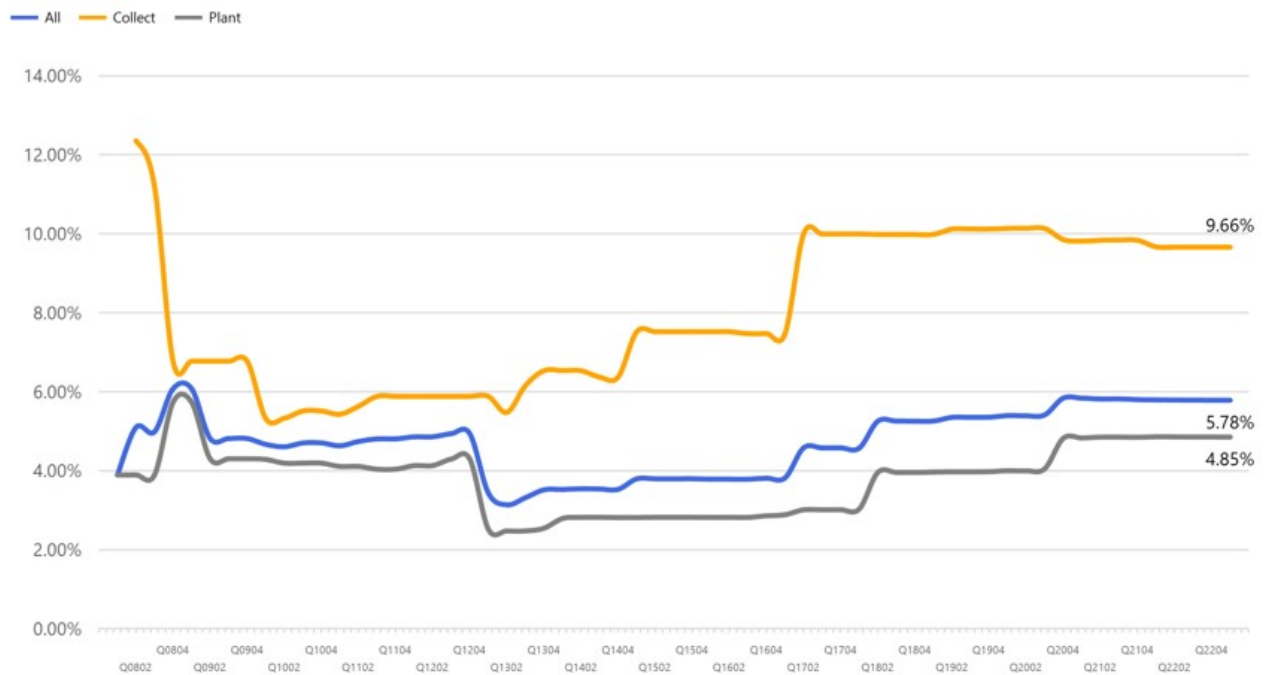
**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

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
				Total				
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).

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

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	4%	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	49%	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	38%	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	29%	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	95%	10.0%	10.0%	6.4%	3.6%
5-67	Bay Bridge Pump Station Replacement	Arcadis U.S., Inc.	PDSA	10/25/2017	\$7,137,000	\$1,750,315	\$8,887,315	52%	10.0%	35.0%	24.5%	10.5%
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	0%	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	\$140,312	\$1,894,312	90%	10.0%	10.0%	8.0%	2.0%
7-66	Sunflower and Red Hill Interceptor Repairs	GHD, Inc.	PCSA	07/28/2021	\$166,000	\$0	\$166,000	27%	10.0%	10.0%	0.0%	10.0%
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	86%	N/A	N/A	69.5%	N/A
J-117B	Outfall Low Flow Pump Station	Brown and Caldwell	PCSA	12/19/2018	\$8,563,913	\$692,120	\$9,256,033	55%	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	8%	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	20%	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	1%	10.0%	10.0%	0.0%	10.0%

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022
Table 7 - Active Engineering Services Agreements**

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
P1-128A	Headquarters Complex at Plant No. 1	AECOM Technical Services, Inc.	PSA	04/28/2021	\$6,750,000	\$0	\$6,750,000	38%	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	\$96,700	\$4,996,700	46%	10.0%	10.0%	2.0%	8.0%
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	0%	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	37%	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%	0.0%
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	64%	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	30%	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	11%	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	17%	10.0%	10.0%	0.0%	10.0%
PS18-09	Ocean Outfall Condition Assessment and Scoping Study	Carollo Engineers, Inc	PSA	03/25/2020	\$2,744,000	\$885,661	\$3,629,661	82%	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	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	0%	10.0%	10.0%	0.0%	10.0%
				Total	\$174,226,515	\$6,743,422	\$180,969,937					

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022
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	75%
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	77%
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	26%
FE18-16	Truck Loading Basement Drain Modifications at Plant No. 1	GHD, Inc.	12/04/2019	\$70,130	\$18,365	\$88,495	90%
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	63%
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	87%
FE19-06	EPSA Motor Cooling Improvements at Plant No. 2	IDS Group, Inc.	05/06/2020	\$88,206	\$0	\$88,206	95%
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	58%
FE20-01	Wastehauler Station Safety and Security Improvements	AECOM Technical Services, Inc.	03/16/2021	\$161,012	\$16,247	\$177,259	71%
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	86%
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%
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	79%

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

Table 8 - Active Task Orders by Master Agreement

Agreement/Project		Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	% Spent
FE20-08	Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River	Dudek	06/21/2021	\$240,000	\$0	\$240,000	78%
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%
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	97%
FR1-0011	VFD Replacements at Plant No. 1	Black & Veatch	04/08/2021	\$283,000	\$17,000	\$300,000	83%
FRC-0009	Bitter Point Trunk Sewer Repair at Bitter Point Pump Station	GHD, Inc.	06/17/2021	\$159,451	\$0	\$159,451	73%
J-127	Natural Gas Pipelines Replacement at Plant Nos. 1 and 2	Black & Veatch	01/21/2019	\$271,964	\$28,036	\$300,000	99%
P1-135	Digester Ferric Chloride Piping Replacement at Plant No. 1	Dudek	02/19/2020	\$127,174	\$0	\$127,174	98%
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	87%
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	\$101,528	\$224,276	90%
PS20-07	College Pump Station Wet Well Condition Assessment Study	HDR Engineering, Inc.	01/18/2022	\$182,297	\$0	\$182,297	2%
PS20-09	Thickening & Dewatering Plant Water Study at Plant No. 1	HDR Engineering, Inc.	04/21/2022	\$219,670	\$0	\$219,670	10%
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%
RE20-02	Chemical Resilience Study at Plant No.1 and 2	Hazen and Sawyer	06/02/2021	\$278,784	\$0	\$278,784	98%
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	35%
FR1-0017	Trickling Filter Valve Replacement at Plant No. 1	Dudek	08/16/2022	\$101,108	\$0	\$101,108	0%
FR1-0018	Dewatering Centrifuge Diverter Gate Improvements at Plant No. 1	Dudek	08/16/2022	\$140,000	\$0	\$140,000	0%
FR2-0023	Activated Sludge Clarifier Entry Improvements at Plant No. 2	AECOM Technical Services, Inc.	01/13/2022	\$120,030	\$79,828	\$199,858	39%

**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

Table 8 - Active Task Orders by Master Agreement

Agreement/Project		Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	% Spent
FRC-0010	Warner Avenue Vault Cover Improvements	Kleinfelder, Inc.	07/01/2021	\$205,000	\$0	\$205,000	63%
FRJ-0003	Interplant Gas Line Blow Off Vault Repairs	Dudek	09/08/2022	\$165,000	\$0	\$165,000	0%
P2-127	Collections Yard Relocation	ProjectLine Technical Services, Inc.	08/02/2022	\$188,898	\$0	\$188,898	0%
SC19-06	EPSA Standby Power Generator Control Upgrades at Plant No. 2	Spec Services, Inc.	11/03/2021	\$241,153	\$0	\$241,153	23%
Agreement for Design Installation, Implementation and Maintenance of a Process Control System							
J-120	Process Control Systems Upgrades	ABB, Inc.	09/15/2021	\$11,818,480	\$0	\$11,818,480	6%
			Total	\$18,916,051	\$760,680	\$19,676,731	

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

**Engineering Program Contract Performance Report
For Quarter Ending 9/30/2022**

Table 9 - Planning Studies Status Report

Project Number	Project Name	Allocated Budget
PS17-03	Active Fault Location Study at Plant No. 2	\$1,300,000
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	\$550,000
PS21-02	Public Announcement and Fire System at Plant Nos. 1 and 2	\$500,000
PS21-03	Process Model for Denitrification Alternatives at Activated Sludge 1	\$47,500
PS21-04	Energy and Digester Gas Master Plan	\$1,102,000
PS21-05	CAD Design Manual Update for 3D Design	\$758,000
PS21-06	Regional Urban Runoff Optimization Study	\$1,000,000
PS21-08	Pure Oxygen Activated Sludge Operations Study at Plant No. 2	\$230,000
Grand Total		\$14,124,517
Number of Chartered Projects		19
Board Approved Program Budget		\$28,652,000
Remaining Unallocated Budget		\$14,527,483

**Engineering Program Contract Performance Report
For Quarter Ending 9/30/2022
Table 10 - Research Program Status Report**

Project Number	Project Name	Allocated Budget
RE19-01	Primary Scum Equipment Evaluation at Plant No. 1	\$69,853
RE20-01	Co-Thickened Sludge Density Meter Trial atl Plant No. 1	\$121,000
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	\$6,890,000
Grand Total		\$7,665,849
Number of Chartered Projects		6
Board Approved Program Budget		\$8,500,000
Remaining Unallocated Budget		\$834,151

Engineering Program Contract Performance Report

For Quarter Ending 9/30/2022

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
FE18-08	West Trunk Bypass Sewer Realignment	\$158,000
FE18-11	Headworks Explosive Gas Monitoring Systems at Plant No. 1 and No. 2	\$605,000
FE18-12	Erosion Control at Santa Ana River and Hamilton Ave	\$445,000
FE18-13	Redhill Relief Sewer Relocation at State Route 55	\$3,470,000
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
FE18-19	12KV Distribution B and East RAS Pump Station Roofing Replacement	\$1,188,000
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	\$2,250,000
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	\$6,300,000
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	\$1,510,000
FE20-02	Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2	\$2,800,000
FE20-03	Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1	\$4,250,000
FE20-04	Cengen Cooling Water Pipe Replacement at Plant No. 2	\$3,500,000
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	\$1,240,000
FE20-08	Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River	\$1,850,000
FE20-09	CenGen Smoke Detection Improvements at Plant No. 1 and No. 2	\$600,000
FE20-10	Adolfo Lopez Chemical Dosing Station Installation	\$1,000,000
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
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
Grand Total		\$60,589,000
Number of Chartered Projects		39
Board Approved Program Budget		\$90,000,000
Remaining Unallocated Budget		\$29,411,000

**Engineering Program Contract Performance Report
For Quarter Ending 9/30/2022**

Table 12 - Information Technology Capital Program Status Report

Project Number	Project Name	Allocated Budget
IT18-09	Records Management Information System	\$246,215
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 StandardsICE-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
Grand Total		\$5,462,384
Number of Chartered Projects		17
Board Approved Program Budget		\$10,000,000
Remaining Unallocated Budget		\$4,537,616

**Engineering Program Contract Performance Report
For Quarter Ending 9/30/2022**

Table 13 - Operations & Maintenance Capital Program Status Report

Project Number	Project Name	Allocated Budget
MP-276-1	1 Central Generation Engine Overhauls at Plant No. 1 and Plant No. 2	\$5,900,000
SC18-05	P1 Laboratory HVAC Boiler Burner Replacement At Plant No.1	\$455,000
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		\$11,105,000
Number of Chartered Projects		5
Board Approved Program Budget		\$15,622,000
Remaining Unallocated Budget		\$4,517,000

PART 4 – SUPPLEMENTAL ENGINEERING SERVICES CONTRACT

OC San has been utilizing Jacobs Project Management 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	\$34,992,152 85.3%	77 Months 90%
Remaining	\$6,007,848 14.7%	9 months 10%

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

	This Quarter	Inception to Date
Labor Hours	12,210	248,304
Full Time Equivalents	25	20
Labor Costs (no expenses)	\$1,874,224	\$34,311,836
Average Hourly Rate	\$154	\$141

A status table for the supplemental engineering services contract summary for the 2022 Supplemental Engineering Services Contract with AECOM and Jacobs Project

Management Co. and AECOM are attached under 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	\$155,529 0.5%	4 Months 7%
Remaining	\$629,544,471 99.5%	56 months 93%

⁽¹⁾ Assuming two additional 1-year extensions

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

	This Quarter	Inception to Date
Labor Hours	813	813
Full Time Equivalents	1.3	1.3
Labor Costs (no expenses)	\$150,822	\$150,822
Average Hourly Rate	\$185.51	\$185.51

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

	Total Fees	Time
Contract	\$29,700,000	60 months ⁽¹⁾
Actuals to Date	\$146,454 0.5%	4 Months 7%
Remaining	\$29,553,546 99.5%	56 months 93%

⁽¹⁾ Assuming two additional 1-year extensions

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

	This Quarter	Inception to Date
Labor Hours	854	854
Full Time Equivalents	5.3	5.3
Labor Costs (no expenses)	\$141,519	\$141,519
Average Hourly Rate	\$166	\$166

PART 5 – 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 May 2019 and expired on April 30, 2022 (PSA2019). The contract limit for Ninyo & Moore was increased from \$300,000 to \$600,000 in April 2020 because that firm was conducting all the associated testing for Newhope-Placentia Trunk Sewer Replacement Project, Project No. 2-72 B&C, and the original contract limit was not adequate. For each of these services, OC San typically uses a single firm for a particular construction contract.

Three new sets of contracts (PSA2022) were approved by the Board on March 23, 2022 and expire on April 30, 2025. The status of these contracts is included in Table 17.

**Engineering Program Contract Performance Report
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Table 17 - On Call Service Agreements Status Report

	Consultant	Contract Limit	Total Costs Incurred	Remaining
PSA2019				
Coating Inspection and Corrosion Testing Services (PSA2019-001)				
	Corrpro Companies, Inc.	\$200,000	\$18,400	\$181,600
	CSI Services, Inc.	\$200,000	\$77,974	\$122,026
	On-Site Technical Services, Inc.	\$200,000	\$0	\$200,000
Materials Testing, Inspection, & Geotech Testing Services (PSA2019-003)				
	Atlas Technical Consultants	\$300,000	\$279,923	\$20,078
	Koury Engineering and Testng, Inc.	\$300,000	\$220,558	\$79,442
	Ninyo & Moore	\$600,000	\$560,955	\$39,045
Surveying Services (PSA2019-002)				
	Bush and Associates, Inc.	\$200,000	\$10,846	\$189,154
	Cannon Corporation	\$200,000	\$110,911	\$89,089
	D.Woolley & Associates	\$200,000	\$84,779	\$115,221
	Michael Baker International, Inc.	\$200,000	\$170,422	\$29,578
	Stantec Consulting Services, Inc.	\$200,000	\$100,527	\$99,473
PSA2022				
Coating Inspection Services (PSA2022-001)				
	CSI Services, Inc.	\$300,000	\$0	\$300,000
	Diversified Project Services Int'l (DPSI)	\$300,000	\$7,963	\$292,038
Geotechnical Testing Services (PSA2022-003)				
	AESCO	\$400,000	\$1,220	\$398,780
	Atlas Technical Consultants	\$400,000	\$51,501	\$348,499
	Koury Engineering and Testng, Inc.	\$400,000	\$0	\$400,000
	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	\$14,340	\$185,660