

DATE: November 21, 2022

TO: Orange County Sanitation District
Board of Directors

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

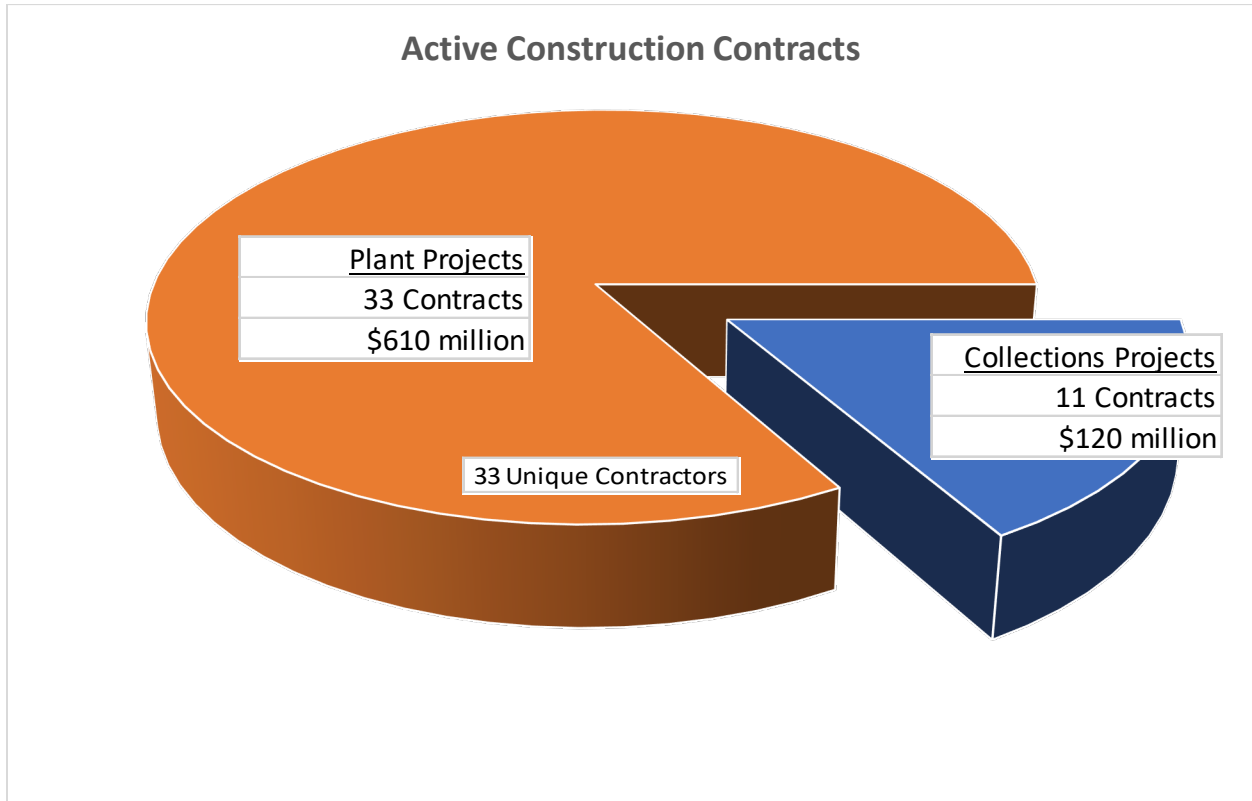
This report summarizes the status, activities, and performance of construction contracts and consultant agreements. This report also identifies the names and status of projects being performed under master budgets for planning studies, research, small construction projects, Operations & Maintenance capital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

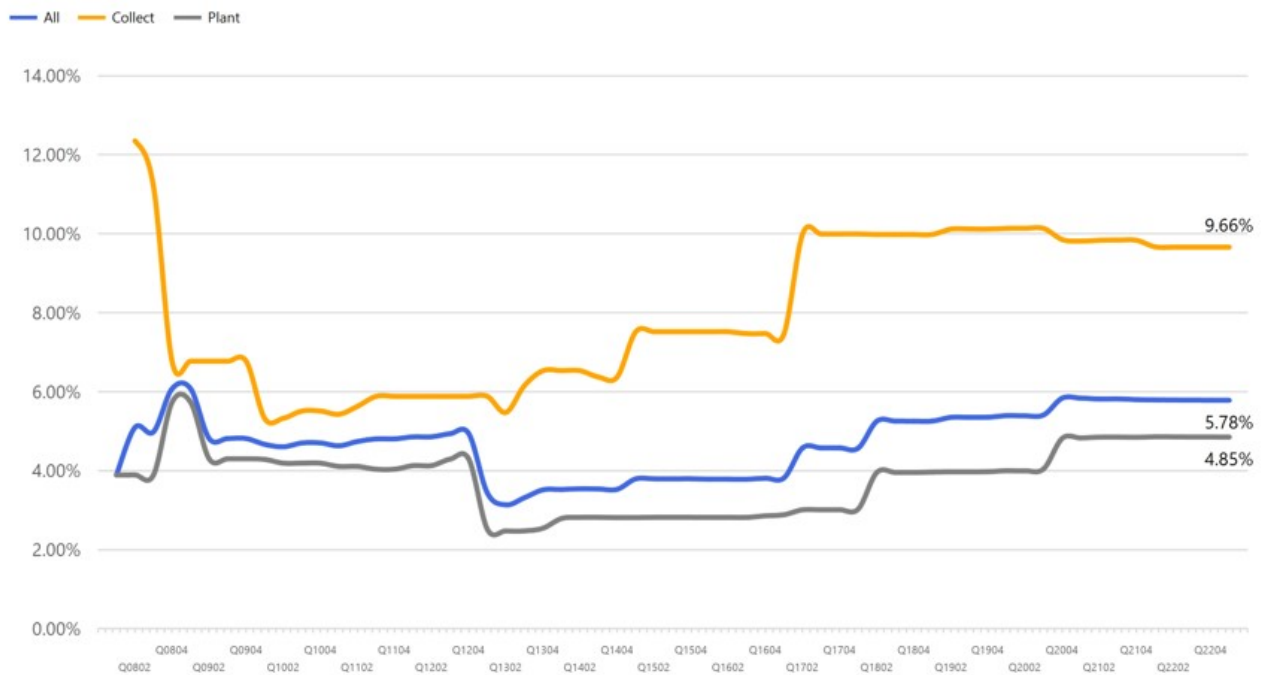
**Engineering Program Contract Performance Report
for Quarter Ending 9/30/2022**

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
for Quarter Ending 9/30/2022**

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 |