

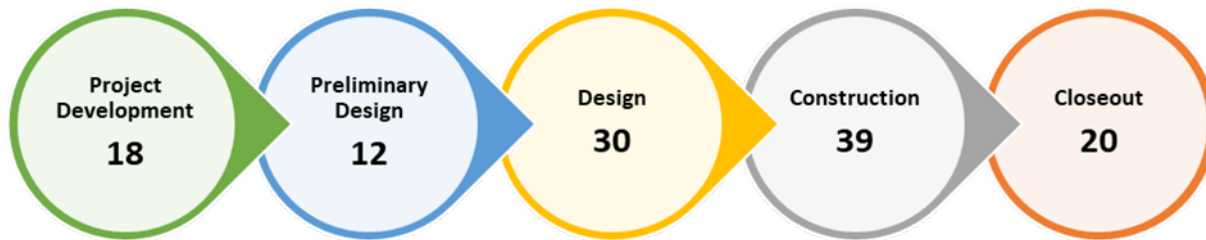
DATE: December 06, 2023

TO: Orange County Sanitation District Board of Directors

FROM: Rob Thompson, General Manager
Through: Mike Dorman, 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.

As of 09/30/2023, Orange County Sanitation District (OC San) Engineering Department manages 119 active projects, with project budgeting totaling close to \$3.5 billion. These projects are in various project phases, ranging from Project Development to Closeout. The graphic below shows the number of projects in each of the project phases.



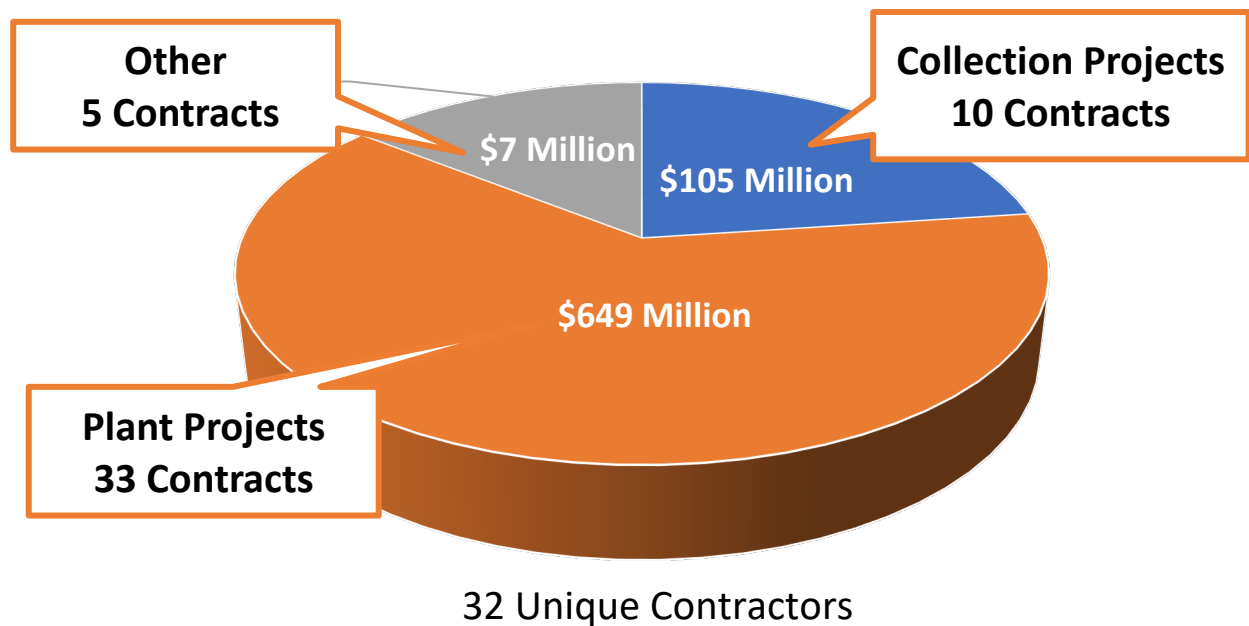
This report is organized into six parts, as follows. Detailed tables can be found in the appendix section of the report.

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PART 1 - CONSTRUCTION CONTRACTS

Construction Contracts

As shown in the graph below, there are currently 48 active construction contracts totaling \$760.6 Million. The active construction contracts, include 33 plant projects, 10 collections projects and five other projects (maintenance, small capital and research projects). Table 1 in the appendix lists the Board-awarded construction contracts active as of September 30, 2023, while Tables 2 and 3 list the General Manager-awarded and Operations Committee-awarded construction contracts. The General Manager may award contracts up to \$150,000 and task orders up to \$500,000.

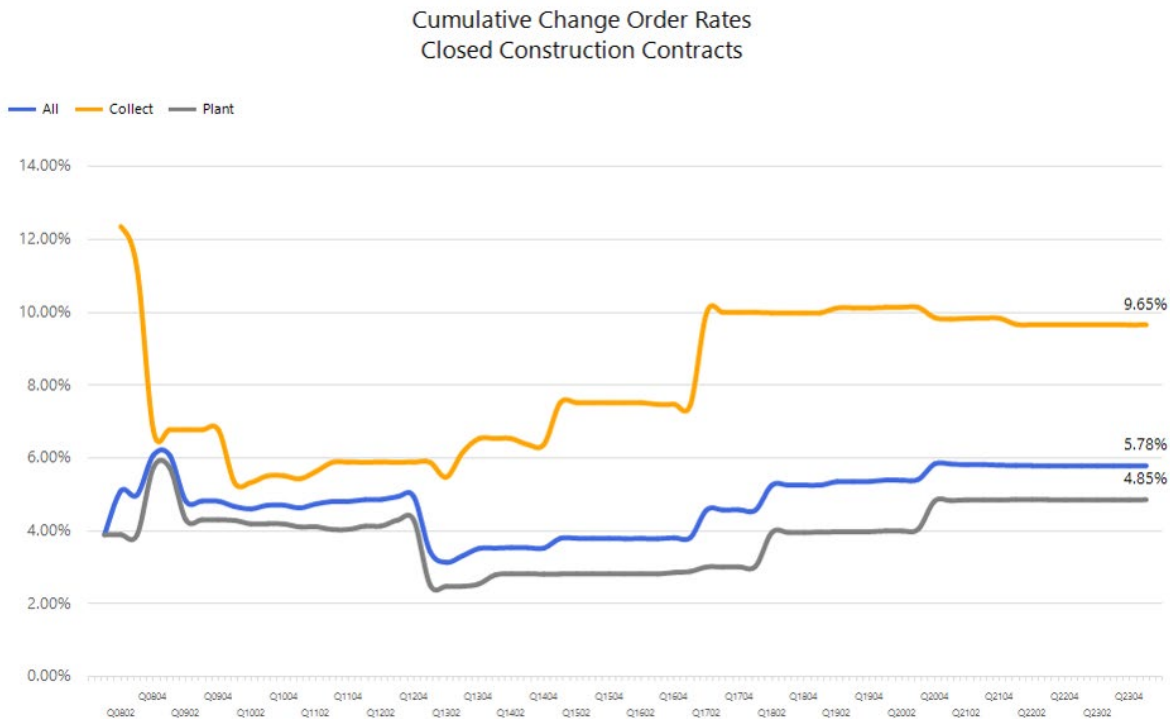


Two construction contracts were closed during this quarter, both were awarded by the Board. The table below summarizes the number of active and closed construction contracts and total contract amounts. See Tables 4, 5 and 6 in the appendix for a list of the closed contracts.

| Type | Contracts | Total Contract Amount |
|---|-----------|-----------------------|
| Active Board-Awarded Construction Contracts | 42 | \$759,945,713 |
| Active Ops Committee Awarded Construction Contracts | 2 | \$319,704 |
| Active GM Awarded Construction Contracts | 4 | \$354,965 |
| Closed Board-Awarded Construction Contracts | 2 | \$535,319 |
| Closed GM Awarded Construction Contracts | 0 | \$0 |
| Closed Committee-Awarded Construction Contracts | 0 | \$0 |

Cumulative Change Order Rates

When the OC San Board of Directors 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, this report's change order performance charts 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.



PART 2 – ENGINEERING PROFESSIONAL SERVICES AGREEMENTS

Professional Service Agreements

OC San engages engineering consultants through Professional Service Agreements (PSAs), Professional Design Services Agreements (PDSAs), and Professional Construction Services Agreements (PCSAs). 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 49 Professional Service Agreements (19 individual firms) with total agreement amount of \$231,579,290. Table 7 in the appendix provides a detailed list of Professional Service Agreements.

Master Agreements

Master Professional Service 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 (3 years)
- 2021 Master Professional Design Services Agreements (3 years)

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-61 to \$500,000 per task order, with a maximum of \$1,000,000 per year for each consultant. Below is a summary of the various master agreements with active task orders. See Table 8 in the appendix for a detailed list of task orders.

| Master Agreements | Task Orders | Total Task Order Amount |
|---|-------------|-------------------------|
| 2017 Master Agreements for On-Call Planning Studies | 1 | \$274,888 |
| 2018 Master Professional Design Service Agreements | 20 | \$3,749,764 |
| 2020 Master Agreements for On-Call Planning Studies | 3 | \$540,699 |
| 2021 Master Professional Design Service Agreement | 11 | \$2,267,882 |

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 in the appendix.

| Master Program Title | Status Table | Number of Projects | Total Allocated Budget |
|--|--------------|--------------------|------------------------|
| Planning Studies Program | Table 9 | 18 | \$13,919,468 |
| Research Program | Table 10 | 2 | \$8,101,029 |
| Small Construction Projects Program | Table 11 | 34 | \$78175500 |
| Information Technology Capital Program | Table 12 | 12 | \$3,874,357 |
| Operations & Maintenance Capital Program | Table 13 | 6 | \$15,303,000 |

PART 4 – SUPPLEMENTAL ENGINEERING SERVICES CONTRACT

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.

Status tables for the supplemental engineering services contract and labor summary for the 2022 Supplemental Engineering Services Contract with AECOM and Jacobs Project Management Co. are included below.

| 2022 Supplemental Engineering Services Contract Status (AECOM) | | | |
|--|--------------|-------|--------------------------|
| | Total Fees | | Time |
| Contract | \$29,700,000 | | 60 months ⁽¹⁾ |
| Actuals to Date | \$1,019,767 | 3.4% | 17 Months 28% |
| Remaining | \$28,680,233 | 96.6% | 43 Months 72% |

⁽¹⁾ Assuming two additional 1-year extensions

| 2022 Supplemental Engineering Services Labor Summary (AECOM) | | |
|--|--------------|-------------------|
| | This Quarter | Inception to Date |
| Labor Hours | 1,648 | 5,982 |
| Full Time Equivalents | 3.6 | 2 |
| Labor Costs (no expenses) | \$283,415 | \$991,606 |
| Average Hourly Rate | \$172 | \$166 |

| 2022 Supplemental Engineering Services Contract Status (Jacobs) | | | |
|---|--------------|-------|--------------------------|
| | Total Fees | | Time |
| Contract | \$29,700,000 | | 60 Months ⁽¹⁾ |
| Actuals to Date | \$4,378,126 | 14.7% | 17 Months 28% |
| Remaining | \$25,321,874 | 85.3% | 43 Months 72% |

⁽¹⁾ Assuming two additional 1-year extensions

| 2022 Supplemental Engineering Services Labor Summary (Jacobs) | | |
|---|--------------|-------------------|
| | This Quarter | Inception to Date |
| Labor Hours | 12,324 | 27,566 |
| Full Time Equivalent | 26 | 11 |
| Labor Costs (no expenses) | \$1,968,159 | \$4,264,198 |
| Average Hourly Rate | \$159 | \$160 |

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 and labor summary for the 2022 Programming Professional Services Contract with Enterprise Automation and Maverick Technologies are included below.

| 2022 Programming Professional Services Contract Status (Enterprise Automation) | | | |
|---|-------------------|-----|--------------------------|
| | Total Fees | | Time |
| Contract | \$4,900,000 | | 60 months ⁽¹⁾ |
| Actuals to Date | \$1,209,849 | 25% | 17 Months 28% |
| Remaining | \$3,690,151 | 75% | 43 months 72% |

⁽¹⁾ Assuming two additional 1-year extensions

| 2022 Programming Professional Services Labor Summary (Enterprise Automation) | | |
|---|---------------------|--------------------------|
| | This Quarter | Inception to Date |
| Labor Hours | 1747 | 6488 |
| Full Time Equivalents | 3.4 | 2.2 |
| Labor Costs (no expenses) | \$322,941 | \$1,209,849 |
| Average Hourly Rate | \$185 | \$186 |

| 2022 Programming Professional Services Contract Status (Maverick Technologies) | | | |
|---|-------------------|-----|--------------------------|
| | Total Fees | | Time |
| Contract | \$4,900,000 | | 60 months ⁽¹⁾ |
| Actuals to Date | \$400,133 | 8% | 17 Months 28% |
| Remaining | \$4,499,867 | 92% | 43 Months 72% |

⁽¹⁾ Assuming two additional 1-year extensions

| 2022 Programming Professional Services Labor Summary (Maverick Technologies) | | |
|---|---------------------|--------------------------|
| | This Quarter | Inception to Date |
| Labor Hours | 1324 | 2081 |
| Full Time Equivalents | 2.5 | 0.7 |
| Labor Costs (no expenses) | \$268,326 | \$400,133 |
| Average Hourly Rate | \$203 | \$192 |

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.

The table below lists the contract limits and funds expended to date for each of the agreements which became effective on 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.

| Consultant | Contract Limit | Total Costs Incurred | Remaining |
|--|----------------|----------------------|-----------|
| Coating Inspection Services (PSA2022-001) | | | |
| CSI Services, Inc. | \$300,000 | \$20,604 | \$279,396 |
| Diversified Project Services Int'l (DPSI) | \$300,000 | \$63,536 | \$236,464 |
| Geotechnical Testing Services (PSA2022-003) | | | |
| AESCO | \$400,000 | \$202,477 | \$197,523 |
| Atlas Technical Consultants | \$400,000 | \$170,302 | \$229,698 |
| Koury Engineering and testing, Inc. | \$400,000 | \$125,031 | \$274,969 |
| MTGL, Inc | \$400,000 | \$2,246 | \$397,754 |
| Surveying Services (PSA2022-002) | | | |
| D.Woolley & Associates | \$200,000 | \$15,085 | \$184,915 |
| Michael Baker International, Inc. | \$200,000 | \$8,848 | \$191,152 |
| Psomas | \$200,000 | \$2,502 | \$197,498 |
| Stantec Consulting Services, Inc. | \$200,000 | \$32,755 | \$167,245 |

APPENDIX

Table 1 - Board-Awarded Construction Contracts

| Project/Contract | | Contractor | Award Date | Contract Amount | | | | Contingency | | | |
|------------------|---|---|------------|-----------------|---------------|--------------|---------|-------------|---------|-------|-----------|
| | | | | Award | Change Orders | Current | % Spent | Original | Current | Used | Remaining |
| 3-62 | Westminster Blvd Force Main Replacement | Teichert Energy - Utilities Group, Inc. | 12/18/2019 | \$27,743,000 | \$3,875,135 | \$31,618,135 | 97.9% | 10.0% | 14.0% | 14.0% | 0.0% |
| 3-64B | Los Alamitos Trunk Sewer Rehabilitation | Steve P. Rados, Inc. | 05/26/2021 | \$17,775,000 | \$144,471 | \$17,919,471 | 75.7% | 10.0% | 10.0% | 0.8% | 9.2% |
| 5-68 | Newport Beach Pump Station Pressurization Improvements | Innovative Construction Solutions | 04/25/2023 | \$937,500 | \$0 | \$937,500 | 0.0% | 10.0% | 10.0% | 0.0% | 10.0% |
| 7-65 | Gisler-Red Hill Interceptor and Baker Force Main Rehabilitation | Steve P. Rados, Inc. | 05/24/2023 | \$44,706,000 | \$0 | \$44,706,000 | 0.0% | 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 | \$477,669 | \$5,254,669 | 99.8% | 10.0% | 11.0% | 10.0% | 1.0% |
| 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 | \$4,348 | \$1,138,348 | 23.1% | 15.0% | 15.0% | 0.4% | 14.6% |
| FE18-15 | Plant Boiler System Relief at Plant No. 2 | MMC, Inc. | 04/28/2021 | \$230,000 | \$24,528 | \$254,528 | 100.0% | 15.0% | 15.0% | 10.7% | 4.3% |
| FE19-01 | Pump Station Portable Generator Connectors | Pacific Industrial Electric | 09/29/2021 | \$1,207,479 | \$87,020 | \$1,294,499 | 63.5% | 10.0% | 10.0% | 7.2% | 2.8% |

Table 1 - Board-Awarded Construction Contracts

| Project/Contract | | Contractor | Award Date | Contract Amount | | | | Contingency | | | |
|------------------|--|-----------------------------------|------------|-----------------|---------------|-------------|---------|-------------|---------|------|-----------|
| | | | | Award | Change Orders | Current | % Spent | Original | Current | Used | Remaining |
| 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 | 70.9% | 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 | 42.2% | 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 | \$38,235 | \$892,235 | 93.8% | 10.0% | 10.0% | 4.5% | 5.5% |
| FE19-08 | Secondary Treatment VFD Replacements at Plant No. 2 | ACS Engineering | 03/23/2022 | \$1,433,000 | \$0 | \$1,433,000 | 3.6% | 10.0% | 10.0% | 0.0% | 10.0% |
| FE20-01 | Wastehauler Station Safety and Security Improvements | Leed Electric | 09/28/2022 | \$1,689,788 | \$61,038 | \$1,750,826 | 97.0% | 10.0% | 16.0% | 3.6% | 12.4% |
| FE20-03 | Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1 | GSE Construction Company, Inc. | 12/15/2022 | \$3,985,400 | \$0 | \$3,985,400 | 8.9% | 10.0% | 10.0% | 0.0% | 10.0% |
| FE20-04 | Cengen Cooling Water Pipe Replacement at Plant No. 2 | Innovative Construction Solutions | 11/16/2022 | \$3,487,600 | \$0 | \$3,487,600 | 3.4% | 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 | \$8,062 | \$801,062 | 100.0% | 10.0% | 10.0% | 1.0% | 9.0% |
| FE20-07 | Santa Ana Trunk Rehabilitation at Plant No. 1 | Sancon Technologies Inc. | 04/27/2022 | \$395,082 | \$5,497 | \$400,579 | 100.0% | 20.0% | 20.0% | 1.4% | 18.6% |

Table 1 - Board-Awarded Construction Contracts

| Project/Contract | | Contractor | Award Date | Contract Amount | | | | Contingency | | | |
|------------------|--|--|------------|-----------------|---------------|--------------|---------|-------------|---------|------|-----------|
| | | | | Award | Change Orders | Current | % Spent | Original | Current | Used | Remaining |
| FE20-08 | Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River | MMC, Inc. | 04/26/2023 | \$1,944,000 | \$0 | \$1,944,000 | 0.0% | 10.0% | 10.0% | 0.0% | 10.0% |
| FE20-09 | CenGen Smoke Detection Improvements at Plant No. 1 and No. 2 | ADT Commercial, LLC | 12/15/2022 | \$313,000 | \$0 | \$313,000 | 3.2% | 10.0% | 10.0% | 0.0% | 10.0% |
| FE21-07 | Liquid Oxygen Tank A Replacement at Plant No. 2 | J.R. Filanc Construction Company, Inc. | 01/18/2023 | \$2,608,007 | \$0 | \$2,608,007 | 8.0% | 10.0% | 10.0% | 0.0% | 10.0% |
| FR1-0011 | VFD Replacements at Plant No. 1 | ACS Engineering | 12/15/2022 | \$1,214,888 | \$0 | \$1,214,888 | 3.5% | 10.2% | 10.2% | 0.0% | 10.2% |
| FR1-0016 | Waste Sidestream Pump Station VFD replacements at Plant No.1 | Leed Electric | 03/23/2022 | \$344,889 | \$0 | \$344,889 | 66.3% | 15.0% | 15.0% | 0.0% | 15.0% |
| FR2-0018 | Activated Sludge Clarifier Repairs at Plant No. 2 | Garney Pacific, Inc. | 07/27/2022 | \$5,091,686 | \$0 | \$5,091,686 | 65.3% | 10.0% | 10.0% | 0.0% | 10.0% |
| FR2-0026 | Headworks Phase 3 Cable Replacement at Plant No. 2 | ACS Engineering | 02/22/2023 | \$575,360 | \$0 | \$575,360 | 7.0% | 20.0% | 20.0% | 0.0% | 20.0% |
| J-117B | Outfall Low Flow Pump Station | Shimmick Construction | 12/19/2018 | \$90,200,000 | \$3,565,756 | \$93,765,756 | 84.9% | 8.0% | 8.0% | 4.0% | 4.0% |
| J-120 | Process Control Systems Upgrades | ABB, Inc. | 07/28/2021 | \$11,818,480 | \$10,149 | \$11,828,629 | 15.2% | 10.0% | 10.0% | 0.1% | 9.9% |
| J-135B | Engine and Generator Overhauls at Plant No. 1 and 2 | Cooper Machinery Services | 07/27/2022 | \$29,361,029 | \$2,554,900 | \$31,915,929 | 31.7% | 10.0% | 15.6% | 8.7% | 6.9% |

Table 1 - Board-Awarded Construction Contracts

| Project/Contract | | Contractor | Award Date | Contract Amount | | | | Contingency | | | |
|------------------|---|---------------------------------|------------|-----------------|---------------|---------------|---------|-------------|---------|------|-----------|
| | | | | Award | Change Orders | Current | % Spent | Original | Current | Used | Remaining |
| 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 | \$2,429,355 | \$224,759,355 | 32.4% | 4.0% | 4.0% | 1.1% | 2.9% |
| P1-128A | Headquarters Complex at Plant No. 1 | Swinerton Builders | 05/26/2021 | \$102,544,973 | \$2,185,344 | \$104,730,317 | 86.7% | 5.0% | 5.0% | 2.1% | 2.9% |
| P1-128A.1 | Headquarters Complex at Plant No. 1 | EIDIM Group, Inc. | 09/20/2023 | \$1,580,000 | \$0 | \$1,580,000 | 0.0% | 10.0% | 10.0% | 0.0% | 10.0% |
| P1-132 | Uninterruptable Power Supply Improvements at Plant 1 | Leed Electric | 12/15/2022 | \$5,765,789 | \$0 | \$5,765,789 | 32.7% | 10.0% | 10.0% | 0.0% | 10.0% |
| 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 | 46.2% | 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 | \$311,213 | \$4,707,992 | 98.0% | 10.0% | 10.0% | 7.1% | 2.9% |
| P2-122 | Headworks Modifications at Plant No. 2 for GWRS Final Expansion | Shimmick Construction | 01/22/2020 | \$14,487,735 | \$739,246 | \$15,226,981 | 100.0% | 10.0% | 10.0% | 5.1% | 4.9% |
| P2-127 | Collections Yard Relocation and Warehouse Demolition at Plant No. 2 | Archico Design Build, Inc. | 09/19/2023 | \$6,500,000 | \$0 | \$6,500,000 | 0.0% | 10.0% | 10.0% | 0.0% | 10.0% |

Table 1 - Board-Awarded Construction Contracts

| Project/Contract | | Contractor | Award Date | Contract Amount | | | | Contingency | | | |
|------------------|---|-----------------------|--------------|----------------------|---------------------|----------------------|---------|-------------|---------|------|-----------|
| | | | | Award | Change Orders | Current | % Spent | Original | Current | Used | Remaining |
| P2-98A | A-Side Primary Clarifiers Replacement at Plant 2 | PCL CONSTRUCTION INC. | 05/26/2021 | \$111,405,880 | \$934,874 | \$112,340,754 | 33.3% | 6.0% | 6.0% | 0.8% | 5.2% |
| RE21-01 | Supercritical Water Oxidation Demonstration at Plant No. 1 | Garney Pacific, Inc. | 12/15/2022 | \$1,172,000 | \$78,842 | \$1,250,842 | 85.0% | 10.0% | 10.0% | 6.7% | 3.3% |
| 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% |
| SC22-01 | EPSA Electrical Building and Distribution Center H HVAC System Replacement at Plant No. 2 | Trane U.S. Inc. | 06/28/2023 | \$3,862,000 | \$0 | \$3,862,000 | 17.5% | 10.0% | 10.0% | 0.0% | 10.0% |
| SC23-01 | Electric Vehicle Charging Stations and Network Installation | Chargie, LLC | 09/06/2023 | \$143,225 | \$0 | \$143,225 | 0.0% | 20.0% | 20.0% | 0.0% | 0.0% |
| | | | Total | \$742,391,714 | \$17,553,999 | \$759,945,713 | | | | | |

Table 2 - GM Awarded Construction Contracts

| Project/Contract | | Contractor | Award Date | Contract Amount | | | |
|------------------|---|--|--------------|------------------|-----------------|------------------|---------|
| | | | | Award | Change Orders | Current | % Spent |
| FE21-06 | Chemical Dosing Station Installation at Westside Pump Station | RP Controls, Inc. | 05/09/2023 | \$62,565 | \$0 | \$62,565 | 0.0% |
| 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 | \$38,000 | \$153,450 | 84.5% |
| MP2-002 | Ella Tunnel Walkway Replacement at Plant 2 | O'Connell Engineering & Construction, Inc. | 10/20/2022 | \$49,450 | \$0 | \$49,450 | 0.0% |
| | | | Total | \$316,965 | \$38,000 | \$354,965 | |

Table 3 - Operations Committee Awarded Construction Contracts

| Project/Contract | | Contractor | Award Date | Contract Amount | | | |
|------------------|--|---------------------------------|--------------|------------------|----------------|------------------|---------|
| | | | | Award | Change Orders | Current | % Spent |
| FE19-13 | VFD Replacements at Seal Beach Pump Station | Energy Management Corporation | 02/02/2022 | \$138,650 | \$3,991 | \$142,641 | 100.0% |
| FR2-0029 | Influent Pump Station Plant Water Piping Repair at Plant No. 2 | W.A. Rasic Construction Company | 06/07/2023 | \$177,063 | \$0 | \$177,063 | 0.0% |
| | | | Total | \$315,713 | \$3,991 | \$319,704 | |

Table 4 - Closed Board-Awarded Construction Contracts

| Project/Contract | | Contractor | Award Date | Closed Date | Contract Amount | | | Contingency | | |
|------------------|--|----------------------|------------|--------------|------------------|-----------------|------------------|-------------|-------|--------|
| | | | | | Award | Change Orders | Final | Original | Final | Unused |
| FE19-12 | Rebuild Shop Fume Extractor Installation at Plant No 1 | RAN Enterprises, Inc | 07/27/2022 | 08/09/2023 | \$217,000 | \$18,319 | \$235,319 | 10.0% | 10.0% | 1.6% |
| FRC-0009 | Bitter Point Trunk Sewer Repair at Bitter Point Pump Station | Charles King Company | 10/13/2022 | 09/26/2023 | \$275,000 | \$25,000 | \$300,000 | 9.0% | 9.1% | 0.0% |
| | | | | Total | \$492,000 | \$43,319 | \$535,319 | | | |

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 | | | | | | | |

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 | | | | | | | |

Table 7 - Active Engineering Services Agreements

| Project/Contract | | Consultant | Type | Award Date | Contract Amount | | | | Contingency | | | |
|------------------|---|-----------------------------------|------|------------|-----------------|-------------|--------------|---------|-------------|---------|-------|-----------|
| | | | | | Award | Amendments | Current | % Spent | Original | Current | Used | Remaining |
| 11-33 | Edinger Pump Station Replacement | Arcadis U.S., Inc. | PDSA | 09/27/2023 | \$3,125,590 | \$0 | \$3,125,590 | 15% | 10.0% | 10.0% | 0.0% | 10.0% |
| 1-23 | Santa Ana Trunk Sewer Rehabilitation | Stantec Consulting Services, Inc. | PDSA | 04/27/2022 | \$3,880,000 | \$0 | \$3,880,000 | 44% | 10.0% | 10.0% | 0.0% | 10.0% |
| 1-24 | Greenville Trunk Improvements | Brown and Caldwell | PDSA | 10/26/2022 | \$4,730,000 | \$0 | \$4,730,000 | 12% | 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 | 82% | 10.0% | 10.0% | 2.5% | 7.5% |
| 2-72 | Newhope-Placentia Trunk Replacement | Lee & Ro, Inc. | PCSA | 03/23/2016 | \$3,253,946 | \$0 | \$3,103,615 | 95% | 6.5% | 12.0% | 9.6% | 2.4% |
| 3-62 | Westminster Blvd Force Main Replacement | Stantec Consulting Services, Inc. | PCSA | 12/18/2019 | \$1,183,000 | \$0 | \$1,183,000 | 50% | 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 | 61% | 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 | \$744,435 | \$6,692,285 | 97% | 10.0% | 12.6% | 12.5% | 0.1% |
| 5-67 | Bay Bridge Pump Station Replacement | Arcadis U.S., Inc. | PDSA | 10/25/2017 | \$7,137,000 | \$1,779,825 | \$8,916,825 | 76% | 10.0% | 35.0% | 24.9% | 10.1% |

Table 7 - Active Engineering Services Agreements

| Project/Contract | | Consultant | Type | Award Date | Contract Amount | | | | Contingency | | | |
|------------------|---|-----------------------------------|------|------------|-----------------|------------|-------------|---------|-------------|---------|-------|-----------|
| | | | | | Award | Amendments | Current | % Spent | Original | Current | Used | Remaining |
| 5-68 | Newport Beach Pump Station Pressurization Improvements | Dudek | PCSA | 02/01/2023 | \$124,979 | \$0 | \$124,979 | 0% | 10.0% | 10.0% | 0.0% | 0.0% |
| 5-68 | Newport Beach Pump Station Pressurization Improvements | Dudek | PDSA | 05/27/2020 | \$542,988 | \$0 | \$542,988 | 87% | 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 | 30% | 10.0% | 10.0% | 0.0% | 10.0% |
| 7-65 | Gisler-Red Hill Interceptor and Baker Force Main Rehabilitation | CDM Smith Inc. | PCSA | 05/24/2023 | \$988,460 | \$0 | \$988,460 | 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 | \$175,400 | \$1,929,400 | 100% | 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 | 45% | 10.0% | 10.0% | 0.0% | 10.0% |
| 7-68 | MacArthur Force Main Improvements | Michael Baker International, Inc. | PCSA | 09/11/2023 | \$272,002 | \$0 | \$272,002 | 0% | 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 | 94% | 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 |
| 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 | 03/27/2019 | \$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 | \$824,932 | \$9,388,845 | 72% | 10.0% | 10.0% | 9.6% | 0.4% |
| J-124 | Digester Gas Facilities Replacement | Brown and Caldwell | PDSA | 11/15/2017 | \$11,770,000 | \$1,177,000 | \$12,947,000 | 98% | 10.0% | 10.0% | 10.0% | 0.0% |
| J-98 | Electrical Power Distribution System Improvements | Schweitzer Engineering Laboratories, Inc | PSA | 03/25/2020 | \$1,296,878 | \$0 | \$1,296,878 | 36% | 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 | \$147,592 | \$2,387,592 | 89% | 10.0% | 10.0% | 6.6% | 3.4% |
| P1-105 | Headworks Rehabilitation at Plant 1 | Carollo Engineers, Inc | PCSA | 03/24/2021 | \$16,500,000 | \$0 | \$16,500,000 | 34% | 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 | 13% | 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 |
| P1-128A | Headquarters Complex at Plant No. 1 | HDR Engineering, Inc. | PCSA | 05/26/2021 | \$4,900,000 | \$512,159 | \$5,412,159 | 76% | 10.0% | 12.0% | 10.5% | 1.5% |
| P1-128A | Headquarters Complex at Plant No. 1 | AECOM Technical Services, Inc. | PSA | 04/28/2021 | \$6,750,000 | \$0 | \$6,750,000 | 69% | 10.0% | 10.0% | 0.0% | 10.0% |
| P1-132 | Uninterruptable Power Supply Improvements at Plant 1 | Tetra Tech, Inc. | PDSA | 11/20/2019 | \$784,630 | \$62,755 | \$847,385 | 97% | 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 | 38% | 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 | 48% | 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 | \$151,537 | \$2,051,537 | 36% | 10.0% | 10.0% | 8.0% | 2.0% |
| P1-140 | Activated Sludge-1 and Secondary Clarifier Rehabilitation | HDR Engineering, Inc. | PDSA | 12/15/2022 | \$18,462,443 | \$0 | \$18,462,443 | 8% | 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 |
| P2-122 | Headworks Modifications at Plant No. 2 for GWRS Final Expansion | CDM Smith Inc. | PCSA | 01/22/2020 | \$2,200,000 | \$0 | \$2,200,000 | 84% | 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 | 09/26/2018 | \$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 | \$2,805,161 | \$42,105,161 | 53% | 10.0% | 10.0% | 7.1% | 2.9% |
| P2-135 | Chemical Systems Rehabilitation at Plant No. 2 | Lee & Ro, Inc. | PDSA | 03/22/2023 | \$862,328 | \$15,305 | \$877,633 | 27% | 10.0% | 10.0% | 1.8% | 8.2% |
| P2-137 | Digesters Rehabilitation at Plant No. 2 | CDM Smith Inc. | PDSA | 03/23/2022 | \$2,700,000 | \$270,000 | \$2,970,000 | 35% | 10.0% | 10.0% | 10.0% | 0.0% |
| P2-138 | Operations and Maintenance Facility Improvements at Plant No. 2 | Stantec Architecture Inc. | PDSA | 01/25/2023 | \$7,914,529 | \$0 | \$7,914,529 | 6% | 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 |
| P2-98A | A-Side Primary Clarifiers Replacement at Plant 2 | SEL Engineering Services Inc. | PSA | 05/23/2023 | \$97,399 | \$0 | \$97,399 | 0% | 0% | 0% | 0.0% | 0.0% |
| P2-98A | A-Side Primary Clarifiers Replacement at Plant 2 | Black & Veatch | PCSA | 05/26/2021 | \$8,400,000 | \$0 | \$8,400,000 | 35% | 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 | \$2,009,067 | \$4,753,067 | 80% | 10.0% | 80.0% | 73.2% | 6.8% |
| PS20-02 | Collection System Flow Level Monitoring Study | Woodard & Curran, Inc. | PSA | 07/28/2021 | \$616,562 | \$0 | \$616,562 | 42% | 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 | 09/07/2022 | \$151,660 | \$0 | \$151,660 | 68% | 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 | 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 |
| RE21-01 | Supercritical Water Oxidation Demonstration at Plant No. 1 | 374Water Systems, Inc. | PSA | 12/15/2021 | \$5,139,000 | \$68,595 | \$5,207,595 | 40% | 10.0% | 10.0% | 1.3% | 8.7% |
| | | | | Total | \$220,494,925 | \$11,084,365 | \$231,579,290 | | | | | |

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 | 80% |
| 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 | 84% |
| 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 | 55% |
| FE18-20 | DAFT Air Compressors Replacement at Plant No. 1 | HDR Engineering, Inc. | 08/18/2020 | \$243,954 | \$11,982 | \$255,936 | 83% |
| FE19-02 | Cengen Plant Water Pipe Replacement at Plant No. 1 | AECOM Technical Services, Inc. | 07/08/2020 | \$156,498 | \$143,378 | \$299,876 | 73% |
| 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. | 05/05/2020 | \$88,206 | \$10,541 | \$98,747 | 88% |
| FE19-10 | Digesters C, D, F, G and I Gas Balance Lines Replacement at Plant No. 2 | GHD, Inc. | 02/03/2021 | \$25,000 | \$65,749 | \$90,749 | 70% |
| 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 | 75% |
| 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 | 89% |
| FE20-02 | Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2 | HDR Engineering, Inc. | 03/02/2021 | \$188,212 | \$34,352 | \$222,564 | 84% |

Table 8 - Active Task Orders by Master Agreement

| Agreement/Project | | Consultant | Award Date | Original Task Order Value | Amendments | Current Task Order Value | % Spent |
|--|--|--------------------------------------|------------|---------------------------|------------|--------------------------|---------|
| FE20-03 | Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1 | GHD, Inc. | 06/14/2021 | \$249,000 | \$0 | \$249,000 | 88% |
| FE20-04 | Cengen Cooling Water Pipe Replacement at Plant No. 2 | Dudek | 05/18/2021 | \$240,000 | \$60,000 | \$300,000 | 96% |
| 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% |
| FE20-08 | Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River | Dudek | 06/10/2021 | \$240,000 | \$0 | \$240,000 | 88% |
| FE20-09 | CenGen Smoke Detection Improvements at Plant No. 1 and No. 2 | IDS Group, Inc. | 06/15/2021 | \$63,275 | \$0 | \$63,275 | 82% |
| 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 | 83% |
| 2020 Master Agreements for On-Call Planning Studies | | | | | | | |
| PS19-03 | Laboratory Rehabilitation Feasibility Study | Hazen and Sawyer | 01/17/2023 | \$23,825 | \$0 | \$23,825 | 100% |
| PS20-09 | Thickening & Dewatering Plant Water Study at Plant No. 1 | HDR Engineering, Inc. | 04/21/2022 | \$219,670 | \$0 | \$219,670 | 59% |
| PS21-08 | Pure Oxygen Activated Sludge Operations Study at Plant No. 2 | Hazen and Sawyer | 09/22/2022 | \$241,791 | \$55,413 | \$297,204 | 81% |
| 2021 Master Professional Design Service Agreements | | | | | | | |
| FE21-08 | Newhope-Placentia Sewer Manhole Replacements | GHD, Inc. | 02/28/2023 | \$235,820 | \$0 | \$235,820 | 63% |
| FE22-01 | Platform Modifications for Process Areas at Plant No. 1 and No. 2 | ProjectLine Technical Services. Inc. | 03/14/2023 | \$159,296 | \$0 | \$159,296 | 49% |
| FR1-0017 | Trickling Filter Valve Replacement at Plant No. 1 | Dudek | 08/16/2022 | \$101,108 | \$0 | \$101,108 | 84% |
| FR1-0018 | Dewatering Centrifuge Diverter Gate Improvements at Plant No. 1 | Dudek | 08/16/2022 | \$140,000 | \$93,191 | \$233,191 | 33% |

Table 8 - Active Task Orders by Master Agreement

| Agreement/Project | | Consultant | Award Date | Original Task Order Value | Amendments | Current Task Order Value | % Spent |
|-------------------|---|--------------------------------------|--------------|---------------------------|------------------|--------------------------|---------|
| FR2-0023 | Activated Sludge Clarifier Entry Improvements at Plant No. 2 | AECOM Technical Services, Inc. | 01/13/2022 | \$120,030 | \$79,828 | \$199,858 | 56% |
| FR2-0027 | Heavy Mechanics Group Office Space Upgrade at Plant No. 2 | ProjectLine Technical Services. Inc. | 09/13/2022 | \$126,153 | \$0 | \$126,153 | 88% |
| FRC-0010 | Warner Avenue Vault Cover Improvements | Kleinfelder, Inc. | 11/16/2021 | \$205,000 | \$43,128 | \$248,128 | 78% |
| FRC-0014 | Magnolia Sewer Manhole Abandonment at Interstate-5 | Brown and Caldwell | 03/15/2023 | \$195,055 | \$0 | \$195,055 | 13% |
| FRJ-0003 | Interplant Gas Line Blow Off Vault Repairs | Dudek | 09/08/2022 | \$165,000 | \$32,091 | \$197,091 | 77% |
| P2-127 | Collections Yard Relocation and Warehouse Demolition at Plant No. 2 | ProjectLine Technical Services. Inc. | 08/02/2022 | \$188,898 | \$83,284 | \$272,182 | 67% |
| SC19-06 | EPSA Standby Power Generator Control Upgrades at Plant No. 2 | Spec Services, Inc. | 11/03/2021 | \$241,153 | \$58,847 | \$300,000 | 69% |
| | | | Total | \$5,861,462 | \$971,771 | \$6,833,233 | |

Table 9 - Planning Studies Status Report

| Project Number | Project Name | Status | Allocated Budget |
|-------------------------------|---|---------------|-------------------------|
| PS18-06 | Go/No-Go Lights and Signage | Active | \$495,000 |
| PS18-09 | Ocean Outfall Condition Assessment and Scoping Study | Active | \$5,302,717 |
| PS19-03 | Laboratory Rehabilitation Feasibility Study | Active | \$450,000 |
| PS20-02 | Collection System Flow Level Monitoring Study | Active | \$743,218 |
| PS20-08 | Euclid Trunk Sewer Hydraulic Modeling and Odor Control Analyses | Active | \$500,000 |
| PS20-09 | Thickening & Dewatering Plant Water Study at Plant No. 1 | Active | \$400,000 |
| PS21-01 | Exterior Lighting Study at Plant Nos. 1 and 2 | Active | \$345,533 |
| PS21-02 | Public Announcement and Fire System at Plant Nos. 1 and 2 | Active | \$500,000 |
| PS21-04 | Energy and Digester Gas Master Plan | Active | \$1,785,000 |
| PS21-05 | CAD Design Manual Update for 3D Design | Active | \$758,000 |
| PS21-06 | Urban Runoff Optimization Study | Active | \$1,100,000 |
| PS21-07 | Process Simulation Model Development for Cen Gen Facilities | Active | \$121,000 |
| PS21-08 | Pure Oxygen Activated Sludge Operations Study at Plant No. 2 | Active | \$360,000 |
| PS21-10 | Integrated Nitrogen Management | Active | \$211,000 |
| PS22-02 | Onsite Oxygen Generation Feasibility Study at Plant No. 2 | Active | \$295,000 |
| PS22-03 | CEQA/MMRP Measures Review | Active | \$40,000 |
| PS23-01 | Fleet Facilities Improvements Study | Active | \$350,000 |
| PS23-02 | Staff Parking Study at Plant No. 2 | Active | \$163,000 |
| Grand Total | | | \$13,919,468 |
| Number of Chartered Projects | | | 18 |
| Board Approved Program Budget | | | \$28,652,000 |
| Remaining Unallocated Budget | | | \$14,732,532 |

Table 10 - Research Program Status Report

| Project Number | Project Name | Status | Allocated Budget |
|-------------------------------|--|---------------|-------------------------|
| RE20-06 | Co-Thickened Sludge Pump Trial at Plant No. 1 | Active | \$160,000 |
| RE21-01 | Supercritical Water Oxidation Demonstration at Plant No. 1 | Active | \$7,941,029 |
| Grand Total | | | \$8,101,029 |
| Number of Chartered Projects | | | 2 |
| Board Approved Program Budget | | | \$10,000,000 |
| Remaining Unallocated Budget | | | \$1,898,971 |

Table 11 - Small Construction Projects Program Status Report

| Project Number | Project Name | Status | Allocated Budget |
|-------------------------------|---|---------------|-------------------------|
| FE18-06 | CenGen Instrument Air Compressors Replacement at Plant No. 1 | Active | \$1,150,000 |
| FE18-13 | Redhill Relief Sewer Relocation at State Route 55 | Active | \$3,550,000 |
| FE18-14 | Plant Water Pipeline Replacement in Kinnison, Lindstrom, and Scott Tunnels at Plant No. 2 | Active | \$1,895,000 |
| FE18-15 | Plant Boiler System Relief at Plant No. 2 | Active | \$675,000 |
| FE18-16 | Truck Loading Basement Drain Modifications at Plant No. 1 | Active | \$592,000 |
| FE18-20 | DAFT Air Compressors Replacement at Plant No. 1 | Active | \$1,360,000 |
| FE19-01 | Pump Station Portable Generator Connectors | Active | \$2,570,000 |
| FE19-02 | Cengen Plant Water Pipe Replacement at Plant No. 1 | Active | \$4,165,000 |
| FE19-03 | Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1 | Active | \$3,200,000 |
| FE19-04 | Sunflower Pump Replacement at Plant No. 1 | Active | \$4,300,000 |
| FE19-06 | EPSA Motor Cooling Improvements at Plant No. 2 | Active | \$1,475,000 |
| FE19-08 | Secondary Treatment VFD Replacements at Plant No. 2 | Active | \$2,900,000 |
| FE19-10 | Digesters C, D, F, G and I Gas Balance Lines Replacement at Plant No. 2 | Active | \$1,200,000 |
| FE19-11 | Primary Clarifiers Nos. 6-31 Lighting and Alarm Improvements at Plant No. 1 | Active | \$1,250,000 |
| FE19-12 | Rebuild Shop Fume Extractor Installation at Plant No. 1 | Active | \$560,000 |
| FE19-13 | VFD Replacements at Seal Beach Pump Station | Active | \$520,000 |
| FE20-01 | Wastehauler Station Safety and Security Improvements | Active | \$2,671,500 |
| FE20-02 | Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2 | Active | \$3,950,000 |
| FE20-03 | Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1 | Active | \$6,840,000 |
| FE20-04 | Cengen Cooling Water Pipe Replacement at Plant No. 2 | Active | \$5,180,000 |
| FE20-05 | Plant Water Piping Replacement at Secondary Clarifiers 1-26 at Plant No. 1 | Active | \$1,545,000 |
| FE20-06 | Thickening and Dewatering Building Pipe Support Improvements at Plant No. 1 | Active | \$1,500,000 |
| FE20-07 | Santa Ana Trunk Rehabilitation at Plant No. 1 | Active | \$765,000 |
| FE20-08 | Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River | Active | \$3,500,000 |
| FE20-09 | CenGen Smoke Detection Improvements at Plant No. 1 and No. 2 | Active | \$950,000 |
| FE21-01 | Plasma Cutting Fume Extractor installation at Plant No. 1 Rebuild Shop | Active | \$277,000 |
| FE21-02 | Lighting Improvements Boiler and Sludge Dewatering Areas at Plant No. 1 | Active | \$320,000 |
| FE21-04 | Thickening and Dewatering Facility Handrail Installation at Plant No. 1 | Active | \$230,000 |
| FE21-06 | Chemical Dosing Station Installation at Westside Pump Station | Active | \$560,000 |
| FE21-07 | Liquid Oxygen Tank A Replacement at Plant No. 2 | Active | \$3,800,000 |
| FE21-08 | Newhope-Placentia Sewer Manhole Replacements | Active | \$1,225,000 |
| FE22-01 | Platform Modifications for Process Areas at Plant No. 1 and No. 2 | Active | \$1,300,000 |
| FE22-02 | Liquid Oxygen Tank B Replacement at Plant No. 2 | Active | \$4,200,000 |
| FE23-01 | Digester Gas Compressor Dryer Replacements at Plant Nos. 1 and 2 | Active | \$8,000,000 |
| Grand Total | | | \$78,175,500 |
| Number of Chartered Projects | | | 34 |
| Board Approved Program Budget | | | \$90,000,000 |
| Remaining Unallocated Budget | | | \$11,824,500 |

Table 12 - Information Technology Capital Program Status Report

| Project Number | Project Name | Status | Allocated Budget |
|-------------------------------|---|---------------|-------------------------|
| IT19-01 | IT Safety VPP Systems (IT19-01) | Active | \$210,000 |
| IT19-05 | IT P1 & P2 Data Refresh (IT19-05) | Active | \$1,200,000 |
| IT20-05 | Client Management Modernization (ICE-69_IT20-05) 6520005 | Active | \$99,000 |
| IT20-06 | Nintex Workflow Cloud Implementation (ICE-75_IT20-06) 6520006 | Active | \$350,000 |
| IT20-08 | Field Computer for Nerissa and Interface with LIMS(ICE-68_IT20-07) 6520008 | Active | \$121,000 |
| IT20-10 | Digitize Quality Assurance Tracking Processes/TNI/ELAP Standards (ICE-76_IT20-10) 6520010 | Active | \$145,700 |
| IT21-01 | Access Network Equipment Obsolescence Replacement (ICE-79_IT21-01) 6521001 | Active | \$1,249,500 |
| IT21-04 | Databridge Scale Management Software (ICE - 84_IT21-04) | Active | \$42,752 |
| IT21-05 | JD Edwards Server Migration and Upgrade (ICE - 86_IT21-05) 6521005 | Active | \$88,000 |
| IT22-01 | Fortigate Firewall Replacement (ICE - 92_IT22-01) 6522001 | Active | \$275,000 |
| IT22-02 | Two Routers and Two Switches for Dual ISPs (ICE - 94_IT22-02) 6522002 | Active | \$80,000 |
| IT22-03 | PAO Graphic Arts Printer (ICE - 95_IT22-03) 6522003 | Active | \$13,405 |
| Grand Total | | | \$3,874,357 |
| Number of Chartered Projects | | | 12 |
| Board Approved Program Budget | | | \$10,000,000 |
| Remaining Unallocated Budget | | | \$6,125,643 |

Table 13 - Operations & Maintenance Capital Program Status Report

| Project Number | Project Name | Status | Allocated Budget |
|-------------------------------|--|---------------|-------------------------|
| SC19-03 | Return Activated Sludge Pump Station Elevator Rehabilitation at Plant No. 2 | Active | \$890,000 |
| SC19-06 | EPSA Standby Power Generator Control Upgrades at Plant No. 2 | Active | \$3,450,000 |
| SC20-02 | Ocean Outfall Booster Station Elevator Rehabilitation | Active | \$410,000 |
| SC22-01 | EPSA Electrical Building and Distribution Center H HVAC System Replacement at Plant No. 2 | Active | \$5,100,000 |
| SC22-02 | HVAC Replacement for Plant 2 Centrifuge Building, Operations Building, and Bitter Point PS | Active | \$3,712,000 |
| SC23-01 | Electric Vehicle Charging Stations and Network Installation | Active | \$391,000 |
| Grand Total | | | \$15,303,000 |
| Number of Chartered Projects | | | 6 |
| Board Approved Program Budget | | | \$15,622,000 |
| Remaining Unallocated Budget | | | \$319,000 |