



METRO TAC AGENDA

(Technical Advisory Committee to Metro JPA/Commission)

TO: Metro TAC Representatives

CC: Metro Directors (for information only)

DATE: Wednesday, October 18, 2023

TIME: 11:00 a.m. to 1:30 p.m.

LOCATION: Metro TAC is holding its October meeting virtually. An e-mail containing information on how to participate in the meeting will be distributed to the Metro TAC members e-mail list and approved San Diego City Staff by Monday, October 16, 2023 by 5:00 p.m. If you do not receive the e-mail, please contact Lori Peoples at lorimetrojpa@gmail.com PRIOR to the meeting date.

1. **ACTION:** Review and Approve MetroTAC Action Minutes for the Meeting of September 20, 2023 (**Attachment**)
2. **ACTION:** Consideration and Possible Action to Recommend for Approval to the Metro Wastewater JPA of a First Amendment to Agreement with AON Risk Insurance Services West for the Owner Controlled Insurance Program (Andrea Demich) (**Attachment**)
3. **ACTION:** Appointment of New Metro TAC Chair and New Vice Chair. (Beth Gentry/Yazmin Arellano)
4. **PRESENTATION:** Functional Design Based Cost Allocation (Dexter Wilson/Kathleen Heitt/Karyn Keze) (**Attachment**)
5. **UPDATE:** Metro Wastewater (General) (Standing Item) (Lisa Celaya)
 - a) April 2020 Spill Update
 - b) January 2023 Spill Update
6. **UPDATE:** JPA Financial (Standing Item) (Karyn Keze)
7. **UPDATE:** Integrated Regional Water Management Program Update (Karen First Jassoy/Alisa Nicols)

8. **UPDATE:** Metro Capital Improvement Program and Funding Sources (Tung Phung) (**Attachment**)
9. **UPDATE:** Industrial Wastewater Control Committee (Beth Gentry/Ryan Cross)
10. **UPDATE:** Metro Commission/JPA Board Meeting Recap (Standing Item) (Beth Gentry)
11. Review of Items to be Brought Forward to the Regular Metro Commission/ Metro JPA Meeting (**November 2, 2023**)
12. Other Business of Metro TAC
13. ([To the next Regular Meeting November 15, 2023](#))

Metro TAC 2023 Meeting Schedule

January 18	May 17	September 20
February 15	June 21	October 18
March 15	July 19	November 15
April 19	August 16	December 20

ATTACHMENT 1

MINUTES OF
SEPTEMBER 20,
2023



MetroTAC

(Technical Advisory Committee to Metro Commission/JPA)

ACTION MINUTES

DATE OF MEETING: September 20, 2023

TIME: 11:00 AM

LOCATION: Zoom Meeting held Online

MEETING ATTENDANCE:

Members Present

Beth Gentry, Chula Vista
Leon Firsht, Coronado
ylt0Joe Bride, Del Mar (absent)
Yazmin Arellano, El Cajon
Mike James, El Cajon
Eric Minicilli, Imperial Beach (absent)gf
Joe Kuhn, La Mesa
Izzy Murguia, Lemon Grove
Carmen Kasner, National City
Steve Beppler, Otay WD
Lito Sanchez, Otay WD
Paul Clarke, Padre Dam MWD
Peejay Tubongbanua, Padre Dam MWD
Alisa Nichols, Poway
NO CURRENT REP, County of San Diego

San Diego City Staff/Consultants

Tom Rosales, City of San Diego
Adam Jones, City of San Diego
Andrea Demich, City of San Diego

Others Present

Doug Owen, STANTEC

Sanjay Gaur, EC AWP Consultant

Staff/Consultants Present

Karyn Keze, the Keze Group
Scott Tulloch, NV5
Dexter Wilson, Wilson Engineering
Lori Anne Peoples, Metro JPA Board Secretary

1. ACTION: Review and Approve MetroTAC Action Minutes for the Meeting of July 19, 2023

ACTION: Motion by Vice Chair Arellano, seconded by Leon Firsht, the Minutes be approved. Motion carried unanimously.

2. PRESENTATION: 2nd Amended Restated Agreement Process

Dexter Wilson provided a brief verbal overview of his Power Point presentation (copy included in the agenda package). He noted that until the City of San Diego approves what is being proposed by the ARA negotiating team, everything is considered DRAFT. JPA staff involved in the preparation of the draft 2nd ARA is Karyn Keze, himself, and Adriana Ocho with review and input by the JPA Executive Team. Those serving on the FIG (Financial Implementation Group) are Karyn Keze and himself for the JPA and Adam Jones and Lisa Celaya for the City of San Diego. FIG provides the preparation and review of all financial and management sections of the 2nd ARA process as well as the oversight on the Stantec billing methodology study. Individual parts of the draft ARA have been reviewed and discussed at the ARA negotiation team level except the new

financial sections which are still in draft form and are being worked on by FIG. JPA General Counsel is in the process of combining all the different sections of the document that have been reviewed to date into a new draft ARA document. This new draft of the ARA will go to FIG, the ARA negotiating Team, the JPA Ad Hoc, TAC, and then the JPA. The plan is to bring the individual parts to TAC and JPA Ad Hoc one piece at a time. They will then finalize and present the entire document.

3. PRESENTATION: Peak Wet Weather Flows

Dexter Wilson provided a brief verbal overview of his PowerPoint presentation included in the agenda package. A hard copy was provided to attendees. JPA Staff has gone through past year wet weather event data and made calculations based on Metro system metered flow for peak wet weather events. The wet weather event that was chosen for calculating each agency's peak flow capacity was the one associated with the 2020 spill event as it is the largest recent rain event. Four scenarios, using this data, were calculated using the 2020 spill event data and were presented to TAC (Slide 2 of the PowerPoint presentation). After reviewing the different methods for calculating each PA's peak, Method 4 was selected as it is the most realistic for Metro staff to implement and use while being statistically accurate.

Mr. Wilson offered to meet with PAs and San Diego individually to review and make sure the calculations reflect their true peak capacity needs. The final peak flow capacity will be used to set the incremental peak flow fixed charge which is needed in order to maintain the Pt Loma facilities for transportation and treatment of peak flows in the future after average daily flows are withdrawn by the Pure Water plants. Pt. Loma will ultimately only be used for brine and peak flow treatment as the majority of average flow will be going to the Pure Water Plants. Establishing a peak flow capacity for each agency also allows Metro staff to provide accountability for system flows during peak wet weather events. San Diego will calculate each agencies peak flow yearly, based on Method 4 guidelines, as part of the annual audit. The largest rain event of the year will be chosen, and each agency's peak will be determined using a 24-hour window prior to and after the rain event to review the data and find each agency's annual peak. This will be reviewed in light of each agency's peak capacities and adjustments made as necessary.

4. UPDATE: Metro Wastewater (General)

a. April 2020 Spill Update

Tom Rosales stated that that as previously reported the Regional Board agreed upon negotiated items approved. There was a \$4.6 million fine. Of this there is an allocation amount for the PA's. \$3.6 million is going to the environmental projects in the South Bay and \$1 million is going to the State. The PA's share will be approximately \$1.5 million or (34%). The Regional Board has requested twice yearly reports on how the city is moving the projects forward. Mr. Rosales noted he had shared this information with Dexter Wilson. They have created a table for CIP projects and established a CIP for Pump Stations 1 & 2. San Diego staff is currently developing an RFP via a consultant and moving forward for a design/build project for the required CIP.

b. January 2023 Spill Update

Tom Rosales stated there was nothing new on the January spill. The city is still waiting to hear back from the Regional Board.

Mr. Rosales provided an update on OPRA II stating that although it had died again last year, it was reintroduced by Congressman Peters in March of 2023 and is still sitting in committee which means it has not moved to the house or senate. All representatives have weighed in on it to push

it forward and our lobbyist is hard at work. City staff are in constant contact with the lobbyist as this is a priority project for them. The hearing is expected to take place in early 2024.

Lastly, Tom announced that today would be his last meeting with MetroTAC and his last day will be September 29th with the City. He is retiring and going to run for Council in his city of Oceanside. He had been holding 2 positions for the City, one for technical/labs and one for wastewater. Interviews were done and they found someone for the technical/labs but not wastewater so in the interim, Craig Boyd and Michael Rosenberg will be filling in with TAC.

5. UPDATE: Pure Water Program

a. Quarterly Construction Report

Doug Owen from STANTEC provided a brief verbal overview of the spreadsheet included in the agenda package. The spreadsheet is based on running cash flows and covers through June 30th i.e., the end of the fiscal year.

6. UPDATE: Metro Wastewater Financial

a. Audit Status

Adam Jones stated that MGO and JPA staff are working on the audit and are requesting to combine FY 2020, FY 2021 and FY 2022 to expedite the completion of the outstanding audits and in hopes that the PA's will come out even. Karyn Keze stated that JPA staff totally supported the combining of the audits as it will save a lot of time and effort. One of the key issues is that cost allocations that were used during FY 2020 and 2021 for the Pure Water CIP were not finalized until FY2022. Thus, these can all be revised as needed once.

b. FY 2025 Metro Billing

Adam Jones stated that staff would like to change the way strengths are used in calculating the annual billings to the PAs. The five-year rolling average would still be maintained. However, starting with the FY2025 budget estimate that will go out in January, the latest (prior year) five year rolling average will be used for billing purposes instead of the latest audited strengths. Since the latest audited year is 2019 using the most recent average is more representative of what each PA is contributing to the system. The numbers used will still be audited with their appropriate year and if any changes are discovered they will be made as part of the routine audit process. Karyn Keze stated that she supports this as many of the PAs were concerned when the FY2019 strengths were used that they were not representative of their current contributions.

7. UPDATE: JPA Financial

Karyn Keze presented the 2nd ARA agenda topics that she and Dexter had prepared for the upcoming TAC, AdHoc, and JPA meetings. She noted that they had been broken down by components of the ARA and FAB system (the new billing system of changes) and will be scheduling to bring the components forward one at a time to allow for a thorough review and discussion. She and Dexter are working with STANTEC and the City of San Diego to complete these items so they can move forward. They would like the PAs to attend these meetings so requested the PA's provide Lori with the emails of their finance people who should attend so that she can provide the ZOOM link and let them into the meeting. Dexter Wilson noted that the new

metro system billing tables A-D will be something that the finance staff will be most interested in. Ms. Keze stated that this table is draft and subject to change as many of the items included are still under review by San Diego staff and the ARA Negotiating Team. If their review is not complete, they will be moved to a later month. This table is just to provide TAC with an idea of what should be coming forward over the next six months.

Karyn then spoke regarding the JPA audit and noted they were pleased with having the new/old auditors. The FY 2020-2021 is almost complete, and the current audit (FY2022-2023) is in the works.

8. UPDATE: Integrated Regional Water Management Program

Alicia Nichols stated that the next meeting will be October 4th, however, they had held a drought workshop and requested comments that they will discuss in October and use to base the new drought grant package on.

9. UPDATE: Metro Capital Improvement Program and Funding Sources

Tung Phung was not available to present his report.

10. UPDATE: Industrial Wastewater Control Committee

Chair Gentry stated the plan was to send the bill in October. Kelly Baelo had advised that the invoices were scheduled to come out at a higher amount based on the approved implementation plan for bringing the rates up to cost of service.

11. UPDATE: Metro JPA/Commission Board Meeting Recap

Chair Gentry stated that the JPA had not held a meeting, however at their August meeting the audit agreement was approved along with the meal policy and all reports previously heard by MetroTAC.

12. Review of Items to be Brought Forward to the Regular Metro JPA/Commission Meeting – October 5, 2023

Chair Gentry noted that items 2, 3, 4, and 5 would be moving forward to the JPA.

13. Other Business of MetroTAC

Chair Gentry stated that that she and Yazmine would not be running for another term as Chair and Vice Chair. Nominations will be requested at the October meeting; the election will be held at the November meeting and the new Chair and Vice Chair will take over at the December meeting. They thanked the JPA staff and City of San Diego Staff for their support during their terms.

13. Adjournment to the Next Regular Meeting

There being no further business the meeting was adjourned at 1:42 p.m.

ATTACHMENT 2

1ST AMDT. TO
AGMT WITH
AON RISK
INSURANCE
SERVICES
WEST

METRO JPA/TAC
Staff Report
Date: 10/10/2023

Project Title:

First Amendment to the agreement with AON Risk Insurance Services West, Inc. for the Owner Controlled Insurance Program

Presenter(s) Name: Andrea Demich

Presenter(s) Title:

Assistant Deputy Director

Requested Action:

1. Authorization to execute the First Amendment to the agreement with AON Risk Insurance Services West, Inc. for the Owner Controlled Insurance Program (OCIP) for an additional amount not to exceed \$886,772.04, thus increasing the total not to exceed amount of the agreement to \$1,886,522.04; and
2. Authorization to expend an amount not to exceed \$886,772.04 of which \$164,016.71 is estimated to be spent in Fiscal Year 2024, \$62,326.35 from Fund 700001, Metro Sewer Utility Fund, and \$101,690.36 from Fund 700011, Water Utility Operating Fund, and \$722,755.33 for the remaining contract term, estimated to be \$274,647.03 from Fund 700001, Metro Sewer Utility Fund, and \$448,108.30 from Fund 700011, Water Utility Operating Fund.

Recommendations:

Approve actions

Metro TAC:	Approve the subject item and forward to Metro JPA/ Metro Commission for approval
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	N/A

Fiscal Impact:

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	\$336,973.38 for Pure Water Metro Sewer + \$0 Muni Sewer + \$549,798.66 Water
Fiscal impact to the Metro JPA:	Pure Water Phase 1: 33.5% of Metro cost (~\$112,886.08)

Capital Improvement Program:

New Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
Existing Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Upgrade/addition <input type="checkbox"/> Change <input checked="" type="checkbox"/>

Previous TAC/JPA Action: None

Additional/Future Action:

Present item to Metro JPA/ Metro Commission in November 2023

City Council Action:

City Council approval expected in November 2023

Background: *Provide background information on the need for the project*

Owner-Controlled Insurance Programs (OCIPs) have been utilized in many large public works programs, including the San Diego County Water Authority's recent \$1 billion Emergency Storage Project. The key benefits of an OCIP are economies of scale-driven cost savings on insurance

Revised: 20140409

ATTACHMENT 4

FUNCTIONAL BASED DESIGN ALLOCATION

OCTOBER 2023

FUNCTIONAL DESIGN BASED COST ALLOCATION

WHAT IS FUNCTIONAL DESIGN BASED COST ALLOCATION (FDBCA)?

Amended Restated Agreement (ARA) definition:

Functional-Design Methodology shall mean the process of allocating Operation and Maintenance Costs and Capital Improvement Costs to Fixed and Variable Flow, Brine and Strength parameters recognizing the benefits of both the design criteria and the primary function of a unit process.

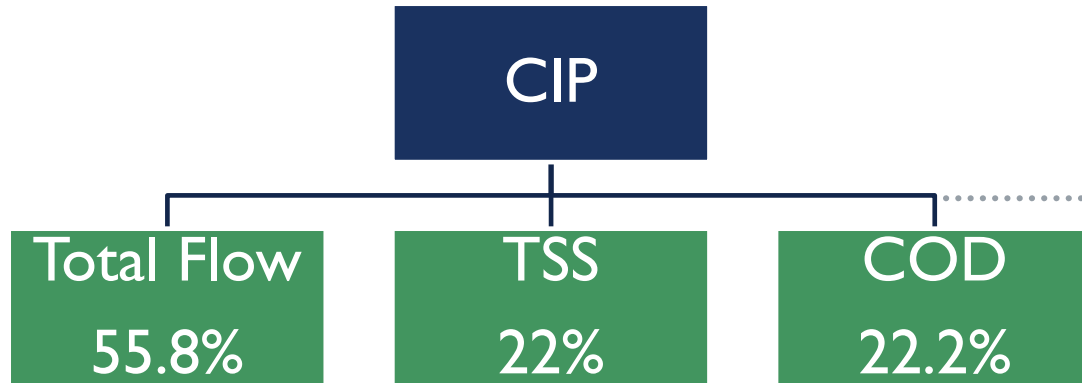
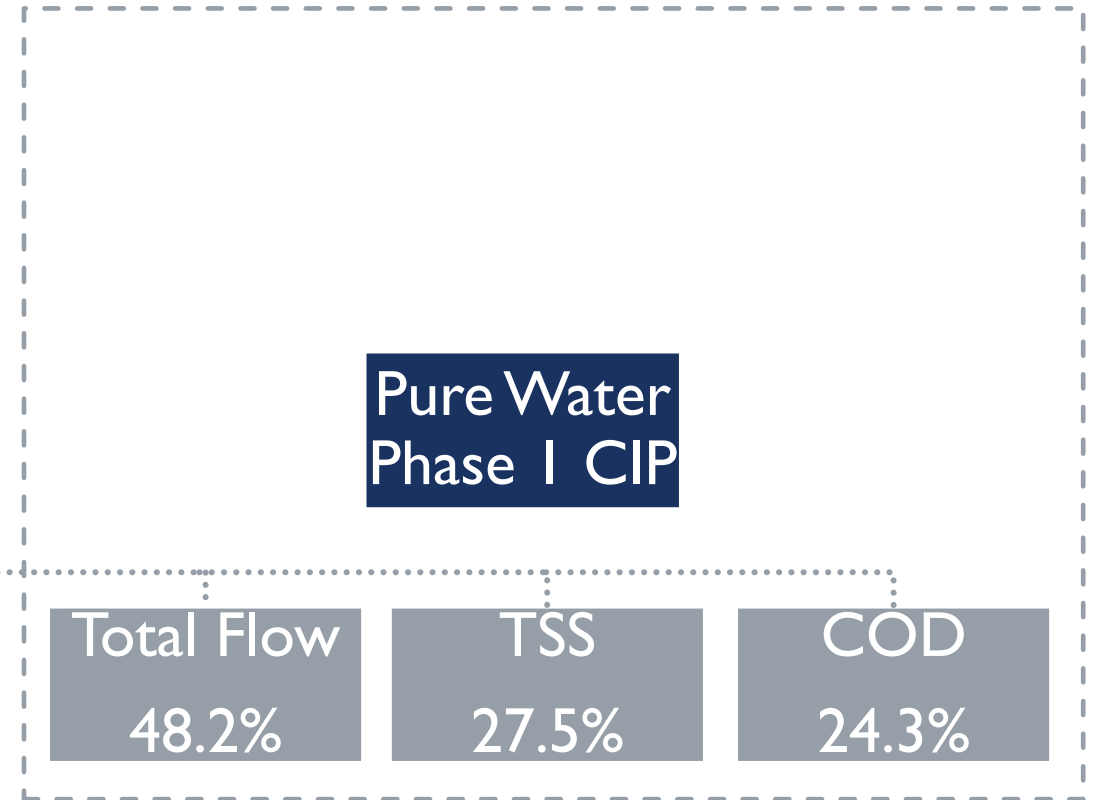
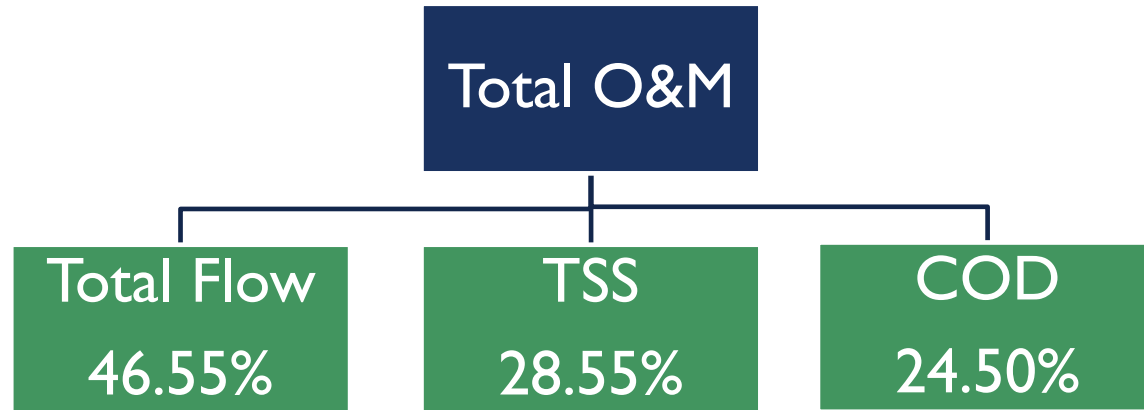
Water Environment Federation, Manual of Practice 27 on the functional-design cost allocation approaches:

- The **design-basis cost-allocation** methodology allocates costs based on the design of the system components.
- The **functional cost-allocation** methodology allocates costs based on the function each process serves.

CURRENT FUNCTIONAL-DESIGN ALLOCATIONS

- Prepared in 1991 by Montgomery Watson
 - Approved by EPA/SWRCB as basis of the City of San Diego' Clean Water Revenue Program
- Based on planning numbers for Original Clean Water Program facilities
 - Pt. Loma was only sewage treatment plant in existence
 - Sludge hauled to Fiesta Island
 - Final configuration of Clean Water Facilities modified after adoption of FDBCA
 - 30 MGD North City Water Reclamation Plant
 - 7 MGD became 15 MGD at South Bay Water Reclamation Plant
 - MBC replaced Fiesta Island
 - Pump stations and pipelines
- Has not been modified or updated since 1991
- Metro rates to PA's have been based on only flow and strengths as set in the 1991 Revenue Program
 - Fixed Cost added in ARA for Pure Water Phase I Capital Costs

HISTORICAL PERSPECTIVE





CURRENT RATE STUDY PROCESS

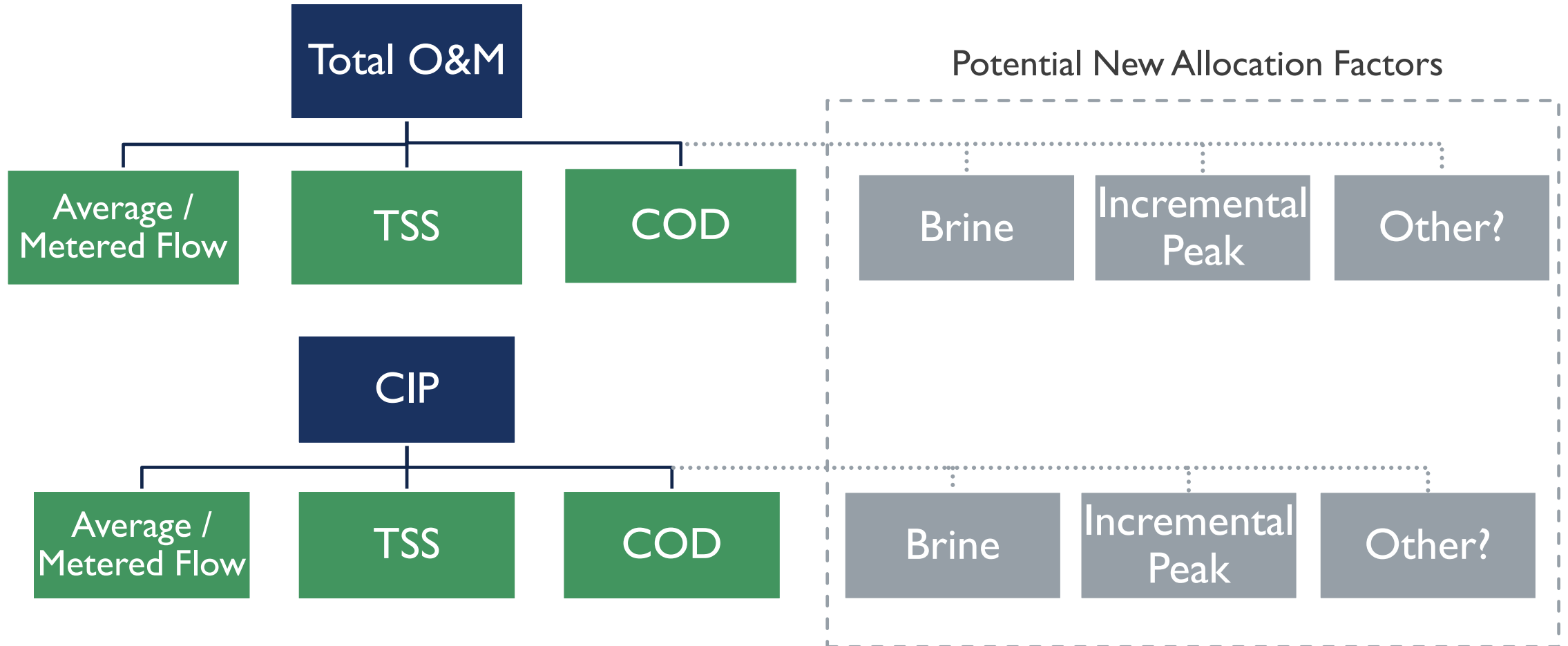
Design Basis

1. Detailed review of current physical assets
 - Allocations by plant and by function/process
 - Allocating asset value to factors
2. Similar approach for new capital projects

Functional Basis

1. Allocate direct O&M budget by plant
 - Functional allocation of assets
 - Question: “What kinds of things will change?”
2. Worked with SD operations & engineering staff to review functional basis specific to each plant and other CIP
 - Review and affirm allocations based on process and asset changes, and projected staffing and operating costs

FUNCTIONAL-DESIGN ALLOCATIONS



PROPOSED FUNCTIONAL DESIGN ALLOCATIONS

- We used 2019 audited cost for this example
- In FY 2027 and FY 2035 things change with the potable reuse projects
 - Point Loma and Pump Station 2 stand ready to process brine and peak flows from wet weather events
 - Anyone with capacity rights pays some of these costs related to peak weather events even in dry years
 - Cost structure incentivizes potable reuse in the system and tracks the infrastructure treating brine
 - San Diego Water becomes a new large payer into the system
 - Metro benefits if water produced is still cheaper than CWA Water
- Capacity rights now have a cost if capacity is not used and I&I has a bigger impact to waste discharger's cost

PROPOSED NORTH CITY WRP ALLOCATIONS

Plant	Processes	Cost Weight	Flow	COD	TSS
NORTH CITY WATER RECLAMATION PLANT	Influent Pump Station	5%	100%	0%	0%
NORTH CITY WATER RECLAMATION PLANT	Screening	3%	100%	0%	0%
NORTH CITY WATER RECLAMATION PLANT	Grit Removal	7%	75%	0%	25%
NORTH CITY WATER RECLAMATION PLANT	Primary Sedimentation	25%	50%	0%	50%
NORTH CITY WATER RECLAMATION PLANT	Aeration	40%	50%	50%	0%
NORTH CITY WATER RECLAMATION PLANT	Secondary Clarification	20%	50%	35%	15%

Capital (Design) Allocations

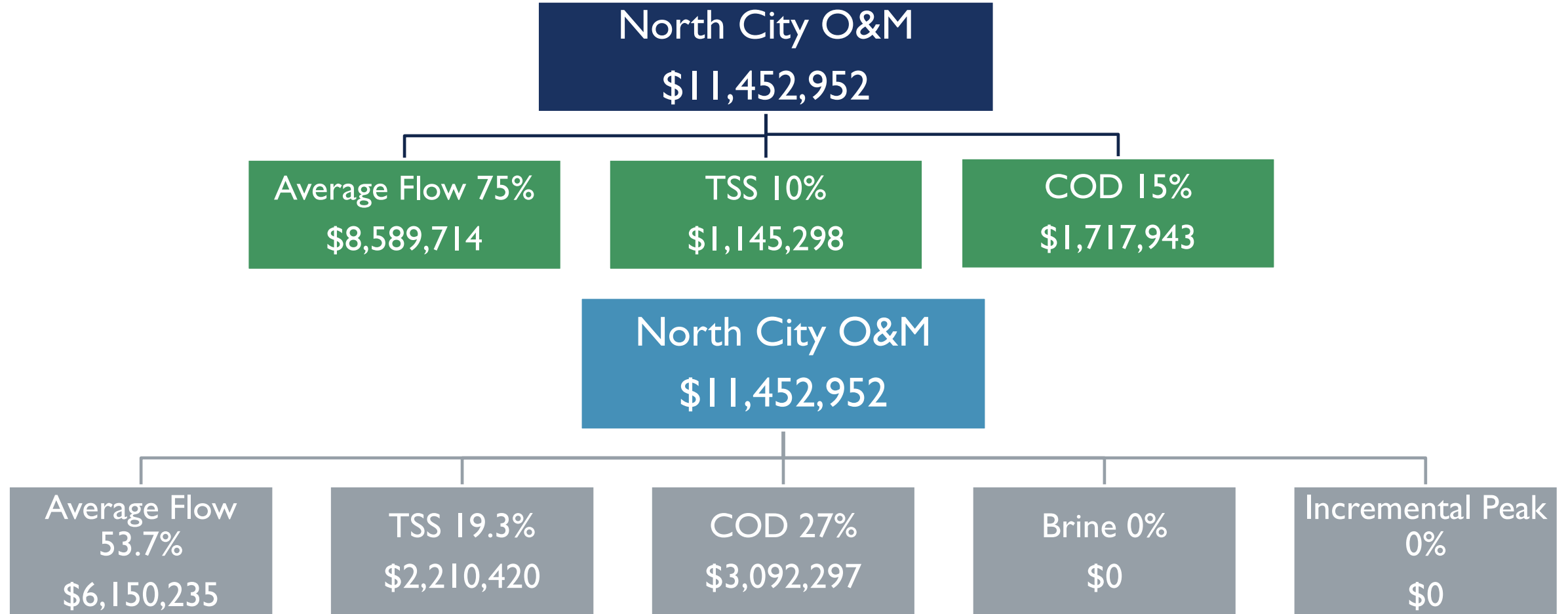
Asset Allocation Percentages		Flow	COD	TSS	Incremental Brine Peak Capacity	
North City Water Reclamation Plant	100.0%	55.8%	27.0%	17.3%	0.0%	0.0%

O&M (Functional) Allocations

Plant	Processes	Cost Weight	Flow	COD	TSS
NORTH CITY WATER RECLAMATION PLANT	Influent Pump Station	5%	100%	0%	0%
NORTH CITY WATER RECLAMATION PLANT	Screening	3%	90%	0%	10%
NORTH CITY WATER RECLAMATION PLANT	Grit Removal	7%	50%	0%	50%
NORTH CITY WATER RECLAMATION PLANT	Primary Sedimentation	25%	50%	0%	50%
NORTH CITY WATER RECLAMATION PLANT	Aeration	40%	50%	50%	0%
NORTH CITY WATER RECLAMATION PLANT	Secondary Clarification	20%	50%	35%	15%

Asset Allocation Percentages		Flow	COD	TSS	Incremental Peak Brine Capacity	
North City Water Reclamation Plant	100.0%	53.7%	27.0%	19.3%	0.0%	0.0%

NORTH CITY WRP – FY19 O&M COMPARISON CURRENT VS PROPOSED



PROPOSED SOUTH BAY WRP ALLOCATIONS

Plant	Processes	Cost Weight	Flow	COD	TSS
SOUTH BAY WATER RECLAMATION PLANT	Screening	5%	100%	0%	0%
SOUTH BAY WATER RECLAMATION PLANT	Grit Removal	10%	75%	0%	25%
SOUTH BAY WATER RECLAMATION PLANT	Primary Sedimentation	25%	50%	0%	50%
SOUTH BAY WATER RECLAMATION PLANT	Aeration	35%	50%	50%	0%
SOUTH BAY WATER RECLAMATION PLANT	Secondary Clarification	25%	50%	35%	15%

Capital (Design) Allocations

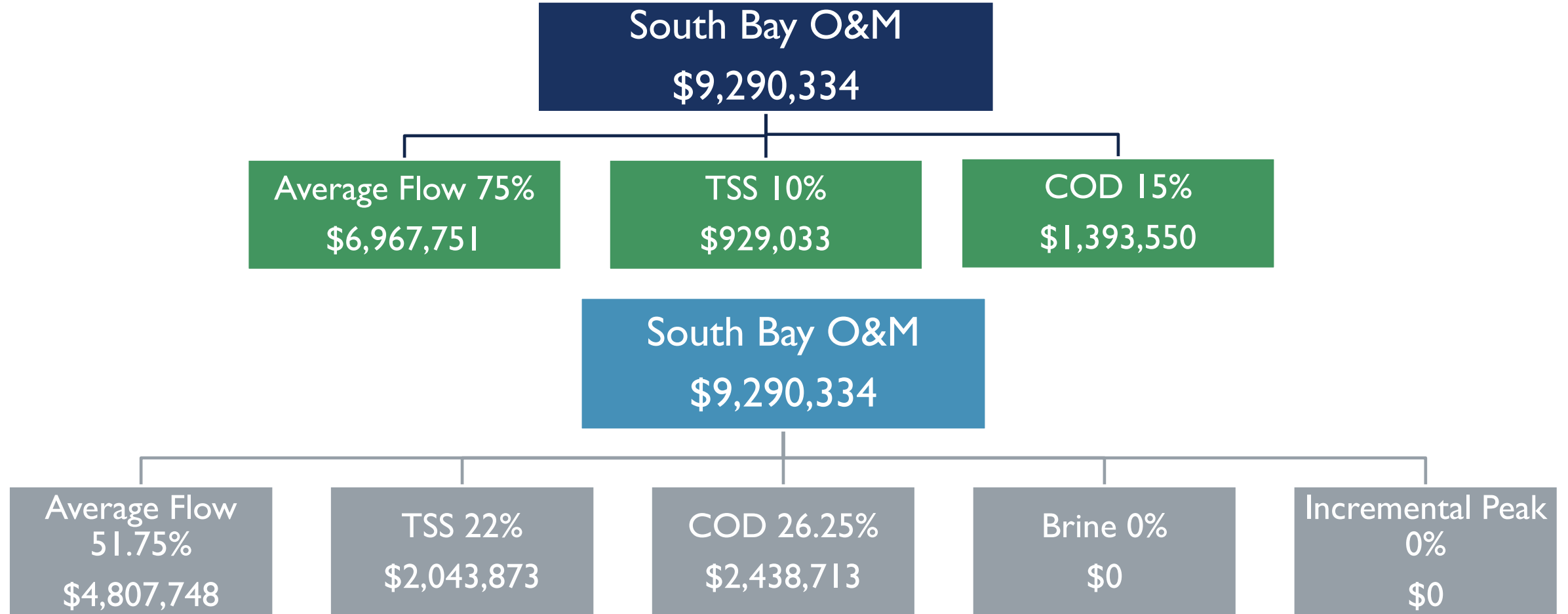
Asset Allocation Percentages		Flow	COD	TSS	Incremental Brine Peak Capacity
South Bay Water Reclamation Plant	100.0%	55.0%	26.3%	18.8%	0.0%

O&M (Functional) Allocations

Plant	Processes	Cost Weight	Flow	COD	TSS
SOUTH BAY WATER RECLAMATION PLANT	Screening	5%	85%	0%	15%
SOUTH BAY WATER RECLAMATION PLANT	Grit Removal	10%	50%	0%	50%
SOUTH BAY WATER RECLAMATION PLANT	Primary Sedimentation	25%	50%	0%	50%
SOUTH BAY WATER RECLAMATION PLANT	Aeration	35%	50%	50%	0%
SOUTH BAY WATER RECLAMATION PLANT	Secondary Clarification	25%	50%	35%	15%

Asset Allocation Percentages		Flow	COD	TSS	Incremental Peak Brine Capacity
South Bay Water Reclamation Plant	100.0%	51.8%	26.3%	22.0%	0.0%

SOUTH BAY WRP – FY19 O&M COMPARISON CURRENT VS PROPOSED



PROPOSED POINT LOMA ALLOCATIONS

Plant	Processes	Cost Weight	Flow	COD	TSS
POINT LOMA WASTEWATER TREATMENT PLANT	Screening	10%	100%	0%	0%
POINT LOMA WASTEWATER TREATMENT PLANT	Grit Removal	15%	75%	0%	25%
POINT LOMA WASTEWATER TREATMENT PLANT	Primary Clarifier	50%	50%	15%	35%
POINT LOMA WASTEWATER TREATMENT PLANT	Chemical Systems	20%	50%	15%	35%
POINT LOMA WASTEWATER TREATMENT PLANT	Post-Clarifier	5%	100%	0%	0%

Capital (Design) Allocations

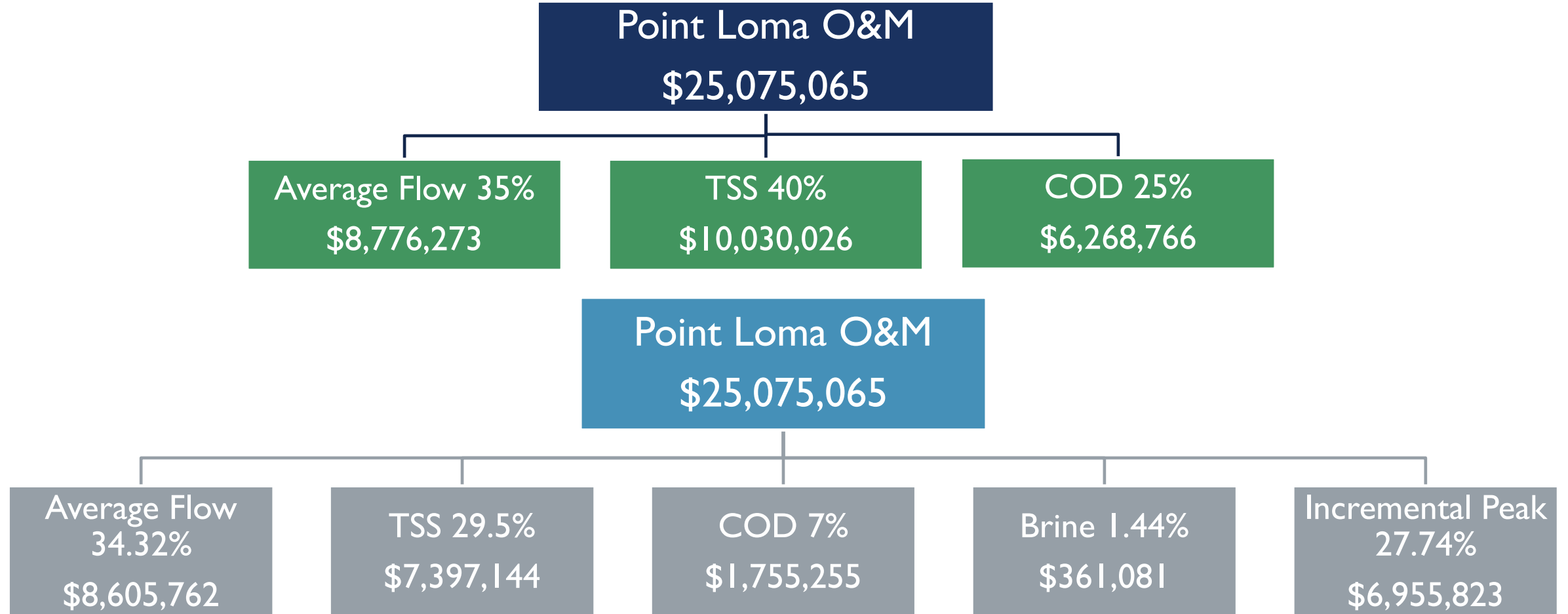
Asset Allocation Percentages		Flow	COD	TSS	Incremental Brine Peak Capacity
Point Loma Wastewater Treatment Plant	100.0%	24.3%	10.5%	28.3%	2.2% 34.7%

O&M (Functional) Allocations

Plant	Processes	Cost Weight	Flow	COD	TSS
POINT LOMA WASTEWATER TREATMENT PLANT	Screening	10%	90%	0%	10%
POINT LOMA WASTEWATER TREATMENT PLANT	Grit Removal	15%	50%	0%	50%
POINT LOMA WASTEWATER TREATMENT PLANT	Primary Clarifier	50%	60%	10%	30%
POINT LOMA WASTEWATER TREATMENT PLANT	Chemical Systems	20%	60%	10%	30%
POINT LOMA WASTEWATER TREATMENT PLANT	Post-Clarifier	5%	100%	0%	0%

Asset Allocation Percentages		Flow	COD	TSS	Incremental Peak Brine Capacity
Point Loma Wastewater Treatment Plant	100.0%	34.3%	7.0%	29.5%	1.4% 27.7%

POINT LOMA – FY19 O&M COMPARISON CURRENT VS PROPOSED



PROPOSED MBC ALLOCATIONS

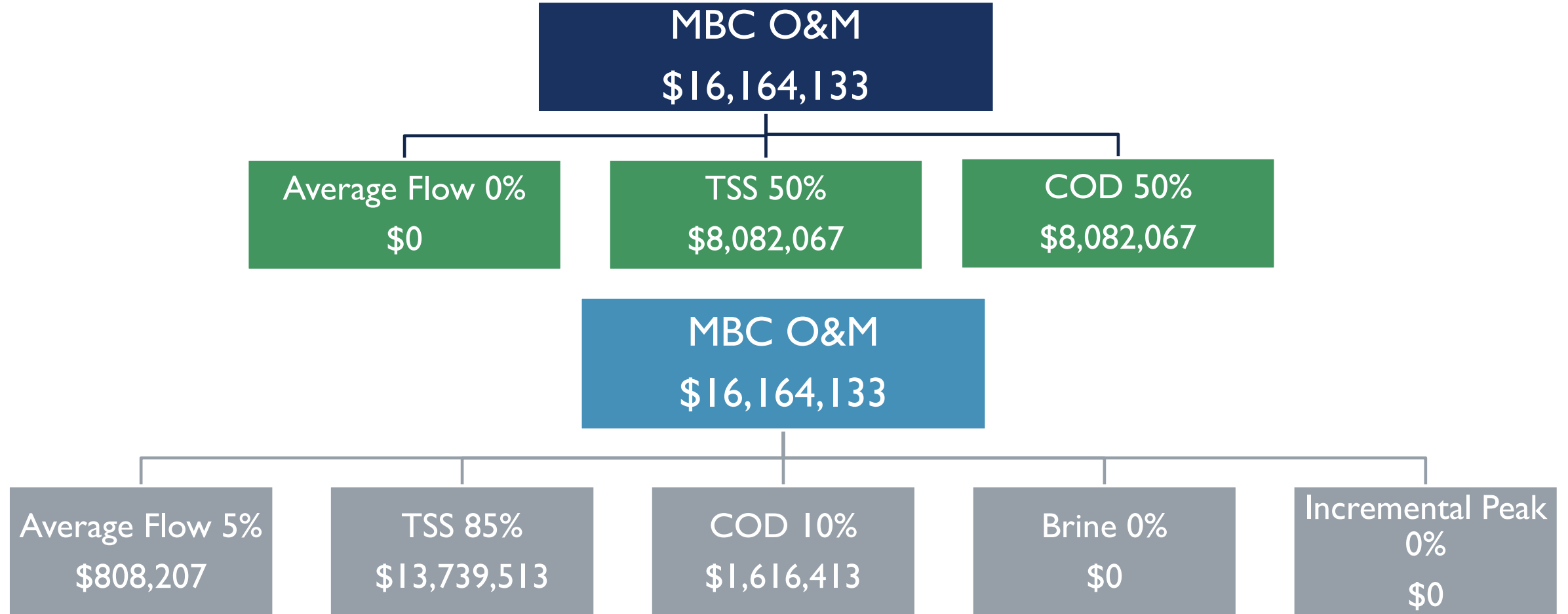
Plant	Processes	Cost Weight	Flow	COD	TSS
METRO BIOSOLIDS CENTER		2023	5%	10%	85%
METRO BIOSOLIDS CENTER		2027	5%	25%	70%
METRO BIOSOLIDS CENTER		2035	5%	50%	45%

Capital (Design) Allocations

O&M (Functional) Allocations

Plant	Processes	Cost Weight	Flow	COD	TSS
METRO BIOSOLIDS CENTER		2023	5%	10%	85%
METRO BIOSOLIDS CENTER		2027	5%	25%	70%
METRO BIOSOLIDS CENTER		2035	5%	50%	45%

MBC – FY19 O&M COMPARISON CURRENT VS PROPOSED



FY19 O&M COMPARISON SUMMARY

Plant	Average Flow	TSS	COD
North City	\$8,589,714	\$1,145,295	\$1,717,943
South Bay	\$6,967,751	\$929,033	\$1,393,550
Point Loma	\$8,776,273	\$10,030,026	\$6,268,766
MBC	\$0	\$8,082,067	\$8,082,067
TOTAL	\$24,333,737	\$20,186,421	\$17,462,326

Plant	Average Flow	TSS	COD	Brine	Incremental Peak
North City	\$6,150,235	\$2,210,420	\$3,092,297	\$0	\$0
South Bay	\$4,807,748	\$2,043,873	\$2,438,713	\$0	\$0
Point Loma	\$8,605,762	\$7,397,144	\$1,755,255	\$361,081	\$6,955,823
MBC	\$808,207	\$13,739,513	\$1,616,413	\$0	\$0
TOTAL	\$20,371,952	\$25,390,950	\$8,902,678	\$361,081	\$6,955,823

ATTACHMENT 8

CAPITAL IMPROVEMENT PROGRAM AND FUNDING SOURCES



THE CITY OF SAN DIEGO

M E M O R A N D U M

DATE: September 1, 2023
TO: Metro Technical Advisory Committee (Metro TAC)
FROM: Keli Balo, Interim Deputy Director, Public Utilities Department
SUBJECT: FY2023 Capital Improvements Projects (CIP) Report – 4th Quarter

The Public Utilities Department hereby submits the FY2023 CIP updates for the period of April 1, 2023 through June 30, 2023.

The report includes the following:

- Project Highlights
- Forecast versus actual expenditures report
- Projects expenditure updates

Project Highlights

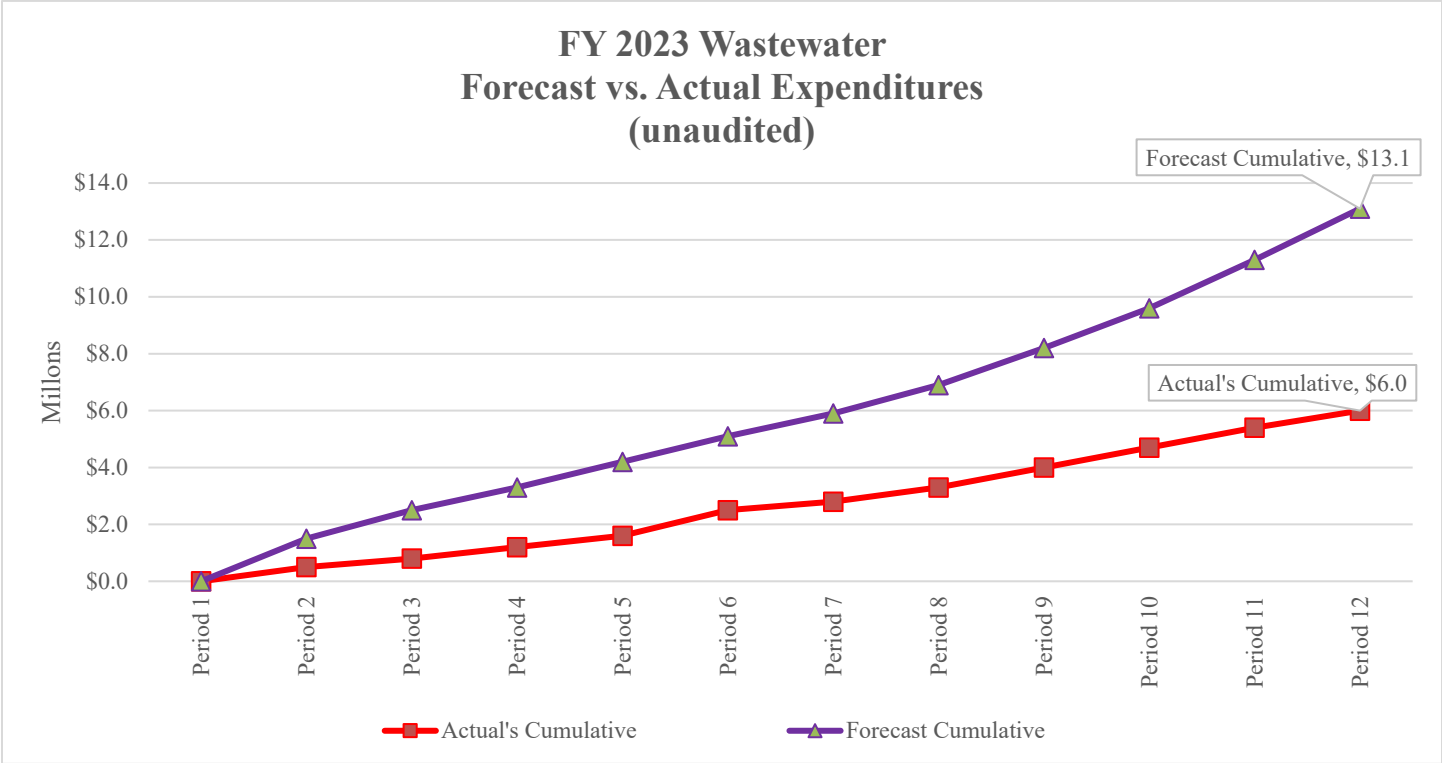
Project	Total Project Cost	Status
SBWRP Variable Frequency Drive Replacement	\$1.4 M	Construction

Remove and replace two 600 HP Variable Frequency Drive and one 200 HP Variable Frequency Drive at the South Bay Wastewater Treatment Plant.



Photos. A before and after comparison between the old VFD (left) and the new VFD (right).

FORECAST VERSUS ACTUAL EXPENDITURES UPDATES



WASTEWATER PROJECTS

FY 2023 - 4th Quarter (Financial Data run June 30, 2023)

NOTES:
- Wastewater projects are separated into Muni and Metro

WASTEWATER PROJECTS								Design Phase			Construction Phase		
WBS	Project Name	Status	Estimated Total Project Cost	Project to Date Expenditures FY23, Pd 12	Encumbrance at FY23, Pd 12	Project Balance (Revised Proj Cost less Expenditures less Encumbrances)	% Spent (Expenditures /Revised Project Cost)	Design Start	Design Finish	Final Design Approval - End Variance	COSS BO/BU	BO/BU	BO/BU Variance
LARGE SEWER PUMP STATIONS - METRO													
S00312	PS2 Power Reliability & Surge Protection Improve power reliability and provide standby power at the pump station, thus protecting against surges during outages and ultimately preventing sewage spills.	Construction	\$75,600,800	\$67,815,520	\$5,337,460	\$2,447,820	89.70%	2/1/2011	9/20/2016	2058	10/20/2021	9/11/2024	1057
OTHER - METRO													
B20001	STORM WATER DIVERSION AT THE PLWTP Divert storm water discharge to comply with the Consent Decree to reduce pollutants in the storm water discharges at the Point Loma Wastewater Treatment Plant.	Design	\$5,233,240	\$1,604,760	\$294,897	\$3,333,583	30.66%	11/7/2019	6/28/2024	1695	12/13/2024	12/11/2025	363
B20002	STORM WATER DIVERSION AT THE SBWRP Divert storm water discharge to comply with the Consent Decree to reduce pollutants in the storm water discharges at the South Bay Water Reclamation Plant.	Bid / Award	\$3,908,100	\$1,503,150	\$3,044,289	-\$639,338	38.46%	11/1/2019	4/15/2022	896	3/20/2023	7/30/2024	498
B19197	STORM DRAIN DIVERSION AT THE MBC Divert storm water discharge to comply with the Consent Decree to reduce pollutants in the storm water discharges at the Metro Biosolids Center.	Bid / Award	\$3,481,800	\$1,940,248	\$3,663,461	-\$2,121,909	55.73%	10/1/2019	5/25/2022	967	11/1/2022	12/16/2024	776
S00319	EMT&S Boat Dock Esplanade Construct one (1) acre esplanade between the existing EMTS building and channel.	Design	\$3,333,000	\$879,227	\$68,569	\$2,385,203	26.38%	10/1/2018	9/2/2022	1432	5/3/2023	12/6/2024	583
SEWER TREATMENT PLANTS - METRO													
B20137	PLWTP Scum Injection Concentrators Improvements Remove existing scum concentrators and replace with scum screens, a decanter and associated piping so that the scum can be injected into the digesters.	Design	\$2,987,400	\$304,118	\$475,395	\$2,207,887	10.18%	8/13/2022	2/21/2023	192	9/15/2023	6/18/2025	642
B20121	Metro Biosolids Ctr Gas Detection Syst Replacement Replace the existing gas sensors with the most up-to-date gas sensors and ensure compatibility with the existing system.	Design	\$3,049,000	\$755,550	\$74,660	\$2,218,791	24.78%	8/13/2020	1/20/2023	890	8/23/2023	5/8/2025	624
B19066	SBWRP Variable Frequency Drive Repl Remove and replace two 600 HP Variable Frequency Drive and one 200 HP Variable Frequency Drive at the South Bay Wastewater Treatment Plant.	Construction	\$955,500	\$916,374	\$76,596	-\$37,470	95.91%	1/29/2020	4/2/2020	64	2/1/2021	5/18/2023	836
B20122	SBWRP Reverse Osmosis System Remove two existing trailer mounted Electrodialysis Reversal (EDR) units and replace the entire EDR system with a two new slab mounted Reverse Osmosis Units.	Design	\$10,700,000	\$940,015	\$812,868	\$8,947,117	8.79%	9/18/2020	6/1/2023	986	1/5/2024	7/10/2025	552
B20148	NCWRP - Chiller Replacement Replace three (3) chillers and two (2) cooling towers, including the integration into the Distributed Controls System (DCS) at North City Water Reclamation Plant. This project also includes the installation of 65 Linear Feet (LF) of 12-inch Ductile Iron (DI) pipe and 35 LF of 16-inch DI pipe.	Design	\$3,000,000	\$379,201	\$361,027	\$2,259,772	12.64%	9/1/2020	10/28/2022	787	5/31/2023	8/13/2024	440