



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, September 18, 2019

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

LOCATION: 9192 Topaz Way, (PUD MOC II Auditorium) – Lunch will be provided

****PLEASE DISTRIBUTE THIS NOTICE TO METRO COMMISSIONERS AND METRO TAC REPRESENTATIVES****

1. Review and Approve MetroTAC Action Minutes for the Meeting of [June 19, 2019](#) (**Attachment**)
2. Metro Commission/JPA Board Meeting Recap (Standing Item)
3. **ACTION:** Consideration and Possible Action to Recommend Approval to the Metro Wastewater JPA Finance Committee and Metro Comm/Metro JPA of the FY 2017 Exhibit E Audit (Charles Modica) (**Attachment**)
4. **INFORMATION:** San Diego Kelp Forest Ecosystem Monitoring Project (2019-2024) (Peter Vroom) (**Attachment**)
5. **REPORT:** Update from Residuals Management Working Group (Scott Tulloch/Dexter Wilson)
6. **REPORT:** Update from Strategic Planning Ad Hoc Committee (Jerry Jones)
7. Metro Wastewater Update (Standing Item) (Edgar Patino)
8. Pure Water Program Update (Standing Item) (City of San Diego Staff)
9. Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung)
10. Financial Update (Standing Item) (Karyn Keese)
 - a. Tracking of Metro System Capital Cost Contributions to Pure Water Program (Cap Status Report) (Attachment)
 - b. JPA 2017 Budget Reconciliation (Attachment)
11. IRWMP Update (Standing Item) (Yazmin Arellano)
12. MetroTAC Work Plan (Standing Item) (Roberto Yano) (**Attachment**)
13. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (**October 3, 2019**)
14. Other Business of Metro TAC
15. Adjournment ([To the next Regular Meeting October 16, 2019](#))

Metro TAC 2019 Meeting Schedule

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

ATTACHMENT 1

Action Minutes

For the Meeting of

June 19, 2019

Metro TAC
(Technical Advisory Committee to Metro Commission/JPA)

ACTION MINUTES

DATE OF MEETING: June 19, 2019
TIME: 11:00 AM
LOCATION: MOC II Auditorium

MEETING ATTENDANCE:

Roberto Yano, National City
Beth Gentry, Chula Vista
Ed Walton, Coronado
Hamed Hashemian, La Mesa
Dexter Wilson, Lemon Grove
Stephanie Boyce, Lemon Grove
Kevin Koeppen, Otay Water Dist
Bob Kennedy, Otay Water Dist.
Mark Niemiec, Padre Dam MWD
Jessica Parks, Poway
Dan Brogadir, County of San Diego

John Helminski, City of San Diego
Edgar Patino, City of San Diego
Charles Modica, City of San Diego
Manuel Da Rosa, City of San Diego
Tom Rosales, City of San Diego
Brian Vitelle, City of San Diego

Doug Owen, Stantec

Scott Tulloch, NV5

Karyn Keese, The Keze Group

Lori Anne Peoples, MetroTAC

1. Review and Approve MetroTAC Action Minutes for the Meeting May 15, 2019

Motion by Beth Gentry, seconded by Dan Brogadir; the minutes were approved by unanimous vote.

2. Metro Commission/JPA Board Meeting Recap

Chair Yano noted that the items forwarded from the last MetroTAC meeting were approved by the JPA.

3. PRESENTATION: IWCP

Doug Owen of Stantec, provided a brief summary of the Power Point presentation that was included in the agenda package. Beth Gentry of Chula Vista volunteered to chair the working group.

4. **ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of a Contract for SBWRB UV System Replacement**

Manny da Rosa, City of San Diego and Brian Vitelle, Sr. Engineer over the project for the City of San Diego provided a brief verbal overview of the staff report. The project proposed to replace the existing UV disinfection system with a more technologically advanced system. The concrete channel will be modified to accommodate the new UV system. Trenching will be performed for the new electrical and controls conduits serving the UV system. The treatment plant's control system will be programmed to interface with the new UV system. Validation tests will be performed for state permits. Tom Rosales, Interim Deputy Director noted that the new system will greatly reduce maintenance and operational costs and challenges faced by the vendor and San Diego staff and will meet current mandated energy efficiency standards.

ACTION: Motion by Hamad Hashemain, seconded by Dan Brogadir, to approve moving the Contract forward to the Metro Commission/Metro Wastewater JPA. Motion carried with Otay Water District voting no.

5. **Report: Update from Residuals Management Working Group**

No report.

6. **Report: Update from Sample Rejection Protocol Working Group**

Edgar Patino, City of San Diego stated he was still working on a training program to last 2-4 hours.

7. **Metro Wastewater Update:**

Edgar Patino, City of San Diego reported that the only thing he had Metro related was the billing for muni-transportation should be out in July and would be based on last year's rate plus CPI.

8. **Pure Water Program Update (Standing Item)**

No report.

9. **Metro Capital Improvement Program and Funding Sources**

No report.

10. Financial Update (Standing Item)

Karyn Keese stated that she and Dexter were working on the 2018 Exhibit E audit fieldwork. City Auditor Deborah Campbell has done an excellent job and has attached support agreements with and prepared complete financial packages. Fiscal Year 2017 is going through the MGO review process and should be completed in September.

11. IRWMP Report (Standing Item)

Beth Gentry, City of Chula Vista spoke regarding Prop 1 Round 1 distribution. More information can be found on their website.

12. MetroTAC Work Plan (Standing Item)

Chair Yano stated that the MetroTAC Work Plan was attached to the agenda for review.

13. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (July 7, 2019)

Chair Yano stated the Metro JPA would be holding a Special Meeting on July 7, 2019 to consider Item 4 from today's agenda.

14. Other Business of Metro TAC

There was none.

15. Adjournment to the next Regular Meeting, July 17, 2019

At 12:30 p.m. the meeting was adjourned.

ATTACHMENT 3

FY 2017 Exhibit E Audit

Fiscal Year 2017 Exhibit E Summary Staff Report

Fiscal Year 2017's "Schedule of Allocation for Billing to Metropolitan Wastewater Utility and Independent Auditors Report" (Exhibit E Audit) was completed on August 26, 2019. A copy of the Auditor's Report and the Reconciliation of Fiscal Year 2017 based on the audited numbers are attached to this report.

EXPENDITURES & INCOME CREDITS

The final operating and capital expenses can be found on Page 3 of the Auditor's Report. The year-end total \$204.3 million is approx. (\$23.1) million (12%) higher than Fiscal Year 2016. The major variances in the areas of expenditures & Income Credits for the year are:

Transmission:

- Transmission costs increased at Pump Station 1 and 2 due to electricity billings. In Fiscal Year 2016 San Diego received large credits and suspended billing from SDGE. As anticipated regular fiscal years SDGE billings return in Fiscal Year 2017 to historical levels plus a slight increase due to energy rates increases. Increase \$4.7 Million.

Treatment & Disposal:

- Increase in Point Loma and North City Water Reclamation Plants due to SDGE electricity billings, as explained above. North City also had a small increase due to planned O&M expense to chemically clean and refurbish filter media. Increase \$3.3 Million.

Engineering:

- Increase in Engineering is related to contracts for Qualcomm Stadium Wetland Mitigation and Alvarado Sewer Long-Term Access projects. Increase \$2.6 Million.

Debt Service:

- The increase over last fiscal year is due to the start of repayment period on previous received SRF loans proceeds. SRF Loans when made have a grace repayment start window and this increase is due to several loans entering repayment status and increases in payments of bond principal & interest. Increase \$2 Million.

INCOME CREDITS

- There was an approx. \$10 Million decrease in income credits related to SRF. This decrease in income credits over Fiscal Year 2016 has a direct correlation to the net increase in Capital Expense, even though the capital expenses remained the same from the previous year. Decrease \$10 Million.

ADDITIONAL HIGHLIGHTS

- Total Pure Water Program – Metropolitan Wastewater Fund costs \$ 12,541,546 Pure Water O&M & related CIP costs. The final cost allocation of O&M task orders, as well as capital improvement projects will be adjusted in a one-time clean up adjustment to be completed at project close out.

TABLE B

- The year-end reconciliation shows the total PA share of the Fiscal Year 2017 operations and CIP costs less income credits of \$67,709,134. The PAs had collectively been billed \$65,000,080 which results in deficit of \$2,709,054 owed to San Diego. Table B reflects the individual PA's annual contributions, actual expenses, and reflect either a credit amount (refund) or debit owed.

TABLE A

CITY OF SAN DIEGO - PUBLIC UTILITIES DEPARTMENT
FISCAL YEAR 2017 ESTIMATED UNIT COSTS
FUNCTIONAL-DESIGN COST ALLOCATION METHOD

TREATMENT PARAMETER	FY 2017 BUDGET		UNITS	COST PER UNIT
WASTEWATER FLOW	AMOUNT	%		
	\$102,202,543	50.0%	60,489 (a)	\$1,689.61 /per Million Gallons
SUSPENDED SOLIDS	\$53,767,100	26.3%	184,871 (b)	\$290.84 /per Thousand Pounds
CHEMICAL OXYGEN DEMAND	\$48,371,296	23.7%	291,864 (c)	\$165.73 /per Thousand Pounds
TOTAL	\$204,340,938	100%		

(a) Units of Flow - Million Gallons Per Year

(b) Units of SS - Thousands of Pounds per Year

(c) Units of COD - Thousands of Pounds per Year

TABLE B

CITY OF SAN DIEGO - PUBLIC UTILITIES DEPARTMENT
 PROJECTED DISTRIBUTION OF SYSTEM WASTEWATER COSTS - FISCAL YEAR 2017
 FUNCTIONAL-DESIGN BASED ALLOCATION METHOD

AGENCY	ALLOCATION OF COSTS BY FLOW, SUSPENDED SOLIDS AND CHEMICAL OXYGEN DEMAND				TOTAL PAID FOR FY 2017	DIFFERENCE
	FLOW (a)	SS (a)	COD (a)	TOTAL FLOW, SS & COD		
CHULA VISTA	\$10,138,757	\$5,556,853	\$4,980,500	\$20,676,110	\$19,122,748	\$1,553,362
CORONADO	\$920,901	\$521,138	\$379,495	\$1,821,534	\$3,096,524	(\$1,274,990)
DEL MAR	\$345,054	\$223,302	\$108,712	\$677,067	\$69,112	\$607,955
EAST OTAY MESA	\$34,298	\$18,737	\$15,540	\$68,576	\$153,912	(\$85,336)
EL CAJON	\$4,833,579	\$3,023,131	\$2,289,572	\$10,146,282	\$9,287,824	\$858,458
IMPERIAL BEACH	\$1,382,814	\$574,542	\$507,804	\$2,465,159	\$2,457,692	\$7,467
LA MESA	\$3,102,616	\$1,421,081	\$1,180,736	\$5,704,433	\$5,033,900	\$670,533
LAKESIDE/ALPINE	\$1,819,139	\$1,089,562	\$876,439	\$3,785,140	\$3,504,564	\$280,576
LEMON GROVE	\$1,063,643	\$462,368	\$452,289	\$1,978,301	\$2,529,200	(\$550,899)
NATIONAL CITY	\$2,554,048	\$1,191,484	\$1,200,069	\$4,945,601	\$5,791,748	(\$846,147)
OTAY	\$380,088	\$316,511	\$175,864	\$872,463	\$690,984	\$181,479
PADRE DAM	\$1,818,303	\$1,756,729	\$1,268,654	\$4,843,687	\$3,853,808	\$989,879
POWAY	\$1,748,977	\$924,985	\$696,031	\$3,369,994	\$3,027,316	\$342,678
SPRING VALLEY	\$2,558,779	\$1,349,870	\$1,135,577	\$5,044,225	\$5,216,832	(\$172,607)
WINTERGARDENS	\$624,511	\$390,413	\$295,638	\$1,310,562	\$1,163,916	\$146,646
SUBTOTAL PARTICIPATING AGENCIES	\$33,325,507	\$18,820,706	\$15,562,921	\$67,709,134	\$65,000,080	\$2,709,054
SAN DIEGO	\$68,877,036	\$34,946,393	\$32,808,375	\$136,631,805		
TOTAL	\$102,202,543	\$53,767,100	\$48,371,296	\$204,340,938		

TABLE C

CITY OF SAN DIEGO - PUBLIC UTILITIES DEPARTMENT
SYSTEM WASTEWATER CHARACTERISTICS - FISCAL YEAR 2017
SYSTEM STRENGTH LOADINGS INCLUDED

AGENCY	WASTEWATER CHARACTERISTICS			UNADJUSTED ANNUAL USE			ADJUSTED ANNUAL USE				
	AVERAGE FLOW - mgd (a)	SS mg/l (b)	COD mg/l (b)	2017 FLOWS million gallons	SS thousand pounds	COD thousand pounds	2017 FLOWS million gallons	Flow Difference (c)	FY 2017 Billing Flows	SS thousand pounds	COD thousand pounds
CHULA VISTA	15.567	281	745	5,681.857	13,336	35,323	6,098.585	(97.939)	6,000.646	19,107	30,051
CORONADO	1.414	290	625	516.082	1,251	2,691	553.933	(8.896)	545.037	1,792	2,290
DEL MAR	0.530	332	478	193.371	536	771	207.554	(3.333)	204.221	768	656
EAST OTAY MESA	0.053	280	687	19.221	45	110	20.631	(0.331)	20.300	64	94
EL CAJON	7.421	321	718	2,708.784	7,255	16,238	2,907.456	(46.692)	2,860.764	10,395	13,815
IMPERIAL BEACH	2.123	213	557	774.942	1,379	3,602	831.779	(13.358)	818.421	1,975	3,064
LA MESA	4.764	235	577	1,738.736	3,411	8,374	1,866.261	(29.971)	1,836.290	4,886	7,124
LAKESIDE/ALPINE	2.793	307	731	1,019.463	2,615	6,216	1,094.234	(17.573)	1,076.661	3,746	5,288
LEMON GROVE	1.633	223	645	596.076	1,110	3,208	639.794	(10.275)	629.519	1,590	2,729
NATIONAL CITY	3.921	239	713	1,431.313	2,860	8,511	1,536.291	(24.672)	1,511.619	4,097	7,241
OTAY	0.584	427	702	213.005	760	1,247	228.628	(3.672)	224.956	1,088	1,061
PADRE DAM	2.792	496	1,058	1,018.995	4,216	8,998	1,093.731	(17.565)	1,076.167	6,040	7,655
POWAY	2.685	271	604	980.144	2,220	4,936	1,052.031	(16.895)	1,035.136	3,180	4,200
SPRING VALLEY	3.929	271	673	1,433.964	3,240	8,054	1,539.136	(24.718)	1,514.419	4,641	6,852
WINTERGARDENS	0.959	321	718	349.982	937	2,097	375.651	(6.033)	369.618	1,342	1,784
SUBTOTAL PARTICIPATING AGENCIES	51.167	290	708	18,675.933	45,169	110,377	20,045.694	(321.921)	19,723.774	64,713	93,904
SAN DIEGO	105.752	260	722	38,599.351	83,870	232,687	41,430.368	(665.344)	40,765.024	120,159	197,960
REGIONAL SLUDGE RETURNS	11.509	260	168	4,200.778	9,113	5,889					
FLOW DIFFERENCE	(2.705)			(987.265)	46,719	(57,089)					
TOTAL	165.723	366	578	60,488.797	184,871	291,864	61,476.062	(987.265)	60,488.797	184,871	291,864

(a) Flows based on metered, housecounts and inter-agency flow, adjustment to City of San Diego flow for centrate, chemical additions reduction, plus an addition for recycled water.

(b) SS and COD characteristics based on samples taken by PUD's Environmental Monitoring and Technical Services Division through June 30, 2017 - proportionate share of return flow loadings calculated in the "ADJUSTED ANNUAL USE" BOX.

(c) Flow difference between metered/housecount and facility totals.

TABLE D

CITY OF SAN DIEGO - PUBLIC UTILITIES DEPARTMENT
ALLOCATION OF FISCAL YEAR 2017 ESTIMATED BUDGET
FUNCTIONAL-DESIGN BASED ALLOCATION METHOD

DESCRIPTION	FY 2017 ACTUAL COSTS	ALLOCATION OF COSTS						TOTAL COSTS
		FLOW %	FLOW COSTS	SS %	SS COSTS	COD %	COD COSTS	
<u>OPERATION AND MAINTENANCE :</u>								
TRANSMISSION AND SYSTEM MAINTENANCE	\$11,406,760	100.0%	\$11,406,760	0.0%	\$0	0.0%	\$0	\$11,406,760
OPERATIONS & MAINTENANCE	\$59,464,008	39.4%	\$23,415,421	32.4%	\$19,292,925	28.2%	\$16,755,662	\$59,464,008
TECHNICAL SERVICES	\$11,148,384	30.0%	\$3,344,515	40.0%	\$4,459,354	30.0%	\$3,344,515	\$11,148,384
COGENERATION	\$1,065,804	0.0%	\$0	60.0%	\$639,482	40.0%	\$426,322	\$1,065,804
METRO ADMIN & GENERAL EXPENSES - 41508	\$25,301,759	45.9%	\$11,622,857	29.4%	\$7,427,993	24.7%	\$6,250,909	\$25,301,759
METRO ADMIN & GENERAL EXPENSES - 41509	\$11,407,197	45.9%	\$5,240,119	29.4%	\$3,348,881	24.7%	\$2,818,197	\$11,407,197
TOTAL OPERATIONS AND MAINTENANCE	\$119,793,912	45.94%	\$55,029,672	29.36%	\$35,168,635	24.71%	\$29,595,605	\$119,793,912
<u>CAPITAL IMPROVEMENT PROGRAM :</u>								
PAY-AS-YOU-GO METRO 41508	\$1,519,741	55.8%	\$847,937	22.0%	\$334,309	22.2%	\$337,495	\$1,519,741
PAY-AS-YOU-GO METRO 41509	\$16,269,715	55.8%	\$9,077,660	22.0%	\$3,578,975	22.2%	\$3,613,080	\$16,269,715
DEBT SERVICE	\$66,757,571	55.8%	\$37,247,274	22.0%	\$14,685,180	22.2%	\$14,825,117	\$66,757,571
TOTAL CAPITAL IMPROVEMENT PROGRAM	\$84,547,026	55.8%	\$47,172,871	22.0%	\$18,598,464	22.2%	\$18,775,691	\$84,547,026
TOTAL O&M & CAPITAL IMPROVEMENT PROGRAM	\$204,340,938	50.0%	\$102,202,543	26.3%	\$53,767,100	23.7%	\$48,371,296	\$204,340,938

**CITY OF SAN DIEGO PUBLIC
UTILITIES DEPARTMENT**

Schedule of Allocation for Billing to Metropolitan
Wastewater Utility and Independent Auditor's Reports

For the Fiscal Year Ended June 30, 2017



Certified
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CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT
Schedule of Allocation for Billing to Metropolitan Wastewater Utility
and Independent Auditor's Reports
For the Fiscal Year Ended June 30, 2017

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Independent Auditor's Report on the Schedule of Allocation for Billing to Metropolitan Wastewater Utility

To the Honorable Mayor and City Council
of the City of San Diego
San Diego, California

Report on the Schedule

We have audited the accompanying Schedule of Allocation for Billing to Metropolitan Wastewater Utility (the Schedule) of the City of San Diego Public Utilities Department (PUD), an enterprise fund of the City of San Diego, California (the City) for the fiscal year ended June 30, 2017, and the related notes to the Schedule.

Management's Responsibility for the Schedule

Management is responsible for the preparation and fair presentation of the Schedule in accordance with the modified cash basis of accounting described in Note 3, this includes determining that the modified cash basis of accounting is an acceptable basis for the preparation of the Schedule in the circumstances. Management is also responsible for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the Schedule that is free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on the Schedule based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the Schedule is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Schedule. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the Schedule, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the Schedule in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the Schedule.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the Schedule referred to above presents fairly, in all material respects, the allocation for billing to the Metropolitan Wastewater Utility of the PUD pursuant to the Regional Wastewater Disposal Agreement (Agreement) between the City and the Participating Agencies in the Metropolitan Wastewater System dated May 18, 1998 and amended on May 15, 2000 and June 3, 2010, for the fiscal year ended June 30, 2017, in accordance with the modified cash basis of accounting as described in Note 3.

Basis of Accounting

We draw attention to Note 3 of the Schedule, which describes that the Schedule is prepared for the purpose of complying with the Regional Wastewater Disposal Agreement between the City and the Participating Agencies and is presented on a modified cash basis of accounting, which is a basis of accounting other than accounting principles generally accepted in the United States of America. Our opinion is not modified with respect to this matter.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated August 12, 2019 on our consideration of the PUD's internal control over financial reporting as it relates to the Schedule and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the PUD's internal control over financial reporting or on compliance related to the Schedule. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the PUD's internal control over financial reporting and compliance related to the Schedule.

Macias Gini & O'Connell LLP

San Diego, California
August 12, 2019

CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT
Schedule of Allocation for Billing to Metropolitan Wastewater Utility
For the Fiscal Year Ended June 30, 2017

	Operating Expenses		
	Municipal System	Metropolitan System	Total
Transmission			
Main Cleaning	\$ 11,993,427	\$ -	\$ 11,993,427
Sewer Pump Stations	5,191,001	-	5,191,001
Other Pump Stations	5,024,582	1,028,728	6,053,310
Pump Station 1	-	2,114,571	2,114,571
Pump Station 2	-	7,988,676	7,988,676
Other Muni Agencies	4,543,332	-	4,543,332
Pipeline Maintenance and Repair	11,651,181	274,785	11,925,966
Wastewater Collection (WWC) Engineering and Planning	2,269,817	-	2,269,817
Total Transmission.....	40,673,340	11,406,760	52,080,100
Treatment and Disposal			
Point Loma Wastewater Treatment Plant (PTLWWTP).....	-	23,643,991	23,643,991
North City Water Reclamation Plant (NCWRP)	-	11,572,782	11,572,782
South Bay Water Reclamation Plant (SBWRP)	-	8,613,917	8,613,917
Metropolitan Biosolids Center (MBC)	-	15,633,318	15,633,318
Cogeneration Facilities	-	1,005,521	1,005,521
Gas Utilization Facility (GUF)	-	1,621,478	1,621,478
Wastewater Treatment and Disposal (WWTD) Plant Engineering	-	803,809	803,809
Total Treatment and Disposal.....	-	62,894,816	62,894,816
Quality Control			
Sewage Testing and Control	545,280	361,480	906,760
Marine Biology and Ocean Operations	-	5,609,300	5,609,300
Wastewater Chemistry Services	861,499	5,539,084	6,400,583
Industrial Permitting and Compliance	4,407,922	-	4,407,922
Total Quality Control.....	5,814,701	11,509,864	17,324,565
Engineering			
Program Management and Review	3,584,738	9,952,115	13,536,853
Environmental Support	3,046,395	181,373	3,227,768
Total Engineering.....	6,631,133	10,133,488	16,764,621
Operational Support			
Central Support: Clean Water Operations Management Network (Comnet)	132,258	2,656,461	2,788,719
Operational Support	1,420,808	6,405,180	7,825,988
Total Operational Support.....	1,553,066	9,061,641	10,614,707
General and Administrative			
Business Support Administration	23,023,262	19,632,847	42,656,109
Operating Division Administration	5,264,783	4,941,342	10,206,125
Total General and Administrative.....	28,288,045	24,574,189	52,862,234
TOTAL OPERATING EXPENSES.....	82,960,285	129,580,758	212,541,043
CAPITAL IMPROVEMENT EXPENSE.....	96,474,215	24,960,756	121,434,971
DEBT SERVICE ALLOCATION.....	40,806,459	66,757,571	107,564,030
METROPOLITAN SYSTEM INCOME CREDITS.....			
Operating Revenue	-	(12,329,428)	(12,329,428)
Capital Improvement Project (CIP) - Revenue Bond Issue	-	-	-
Operating - Grant Revenue	-	-	-
Capital Improvement Project (CIP) - Grant/SRF Revenue	-	(4,628,718)	(4,628,718)
TOTAL METROPOLITAN SYSTEM INCOME CREDITS.....	-	(16,958,146)	(16,958,146)
TOTAL ALLOCATION FOR BILLING PURPOSES.....	\$ 220,240,959	\$ 204,340,939	\$ 424,581,898

See Accompanying Notes to the Schedule of Allocation to Billing Metropolitan Wastewater Utility

CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT
Notes to the Schedule of Allocation for Billing to Metropolitan Wastewater Utility
For the Fiscal Year Ended June 30, 2017

Note 1 – General

The City of San Diego Public Utilities Department (the PUD) operates and maintains the Metropolitan Wastewater System (the Metropolitan System) and the Municipal Wastewater Collection System (the Municipal System). The Participating Agencies and the City of San Diego (the City) have entered into the Regional Wastewater Disposal Agreement dated May 18, 1998 and amended on May 15, 2000 and June 3, 2010, for their respective share of usage and upkeep of the Metropolitan Wastewater Utility. The accompanying Schedule of Allocation for Billing to Metropolitan Wastewater Utility (the Schedule), represents the allocation of expenses for billing related to the Metropolitan Wastewater Utility of the Participating Agencies.

The Metropolitan System and Municipal System are accounted for as enterprise funds and reported in the Sewer Utility Fund in the City's Comprehensive Annual Financial Report.

Note 2 – Participating Agencies

The Participating Agencies consist of the following municipalities and districts:

City of Chula Vista	City of National City
City of Coronado	City of Poway
City of Del Mar	Lemon Grove Sanitation District
City of El Cajon	Otay Water District
City of Imperial Beach	Padre Dam Municipal Water District
City of La Mesa	San Diego County Sanitation District

Note 3 – Summary of Significant Accounting Policies

Basis of Presentation

The Schedule has been prepared for the purpose of complying with the Regional Wastewater Disposal Agreement between the City and the Participating Agencies as discussed in Note 1 above, and is presented on a modified cash basis of accounting. As a result, the Schedule is not intended to be a presentation of the changes in the financial position of the City or the PUD in conformity with generally accepted accounting principles. The more significant differences are:

1. Purchases of capital assets are presented as capital improvement expense.
2. Depreciation expense on capital assets is not reported in the Schedule.
3. Payments of principal and interest related to long-term debt are reported as debt service allocation.
4. Unbudgeted expenses related to compensated absences, liability claims, capitalized interest, pollution remediation, other postemployment benefits, net pension obligation, and landfill closure and postclosure care costs are excluded from the Schedule.

The preparation of the Schedule requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT
Notes to the Schedule of Allocation for Billing to Metropolitan Wastewater Utility (Continued)
For the Fiscal Year Ended June 30, 2017

Note 4 – Capital Improvement Expense

Construction costs incurred during the fiscal year (FY) to maintain and improve the Metropolitan and Metropolitan Wastewater Utility and equipment purchases used in the maintenance of the Metropolitan and Municipal Wastewater Utility are included in capital improvement expense.

Note 5 – Debt Service Allocation

Debt service allocation represents a portion of the principal and interest payments relating to the Senior Sewer Revenue Bonds Series 2009A, the Senior Sewer Revenue Refunding Bonds Series 2009B, 2015, and 2016A, and the outstanding State Revolving Fund (SRF) loans from the State of California.

Note 6 – Metropolitan System Income Credits

Metropolitan System income credits are revenues earned by the Metropolitan System for costs incurred during the current or previous fiscal years. The PUD has agreed to share the income credits from the South Bay Water Reclamation Facility in accordance with the 1998 Regional Wastewater Disposal Agreement. An agreement was reached in FY2015 regarding revenue generated from the South Bay Water Reclamation Facility and revenue sharing payments were issued for FY2006 through FY2014 to the Participating Agencies. During the fiscal year ended June 30, 2017, revenue sharing payments for FY2017 of approximately \$3.34 million were transferred from the City's Water Fund and are included in the Schedule as part of the income credits.

Metropolitan system capital improvement income credits include, if any, contributions-in-aid-of-construction received from Federal and State granting agencies and reimbursements from bond proceeds.

Note 7 – Total Allocation for Billing Purposes

Costs to be billed to Participating Agencies include all individual construction projects costs and operation and maintenance expenses attributable to the Metropolitan System. Costs are apportioned back to the Participating Agencies based on their percentage of each of the totals of flow, suspended solids and chemical oxygen demand (COD). Each Participating Agency and the City are sampled quarterly, with plants sampled daily. Beginning in FY2014, the percentages were determined from a new sample data set taken during the fiscal year and annual monitored flow.

For construction projects, percentages were allocated to flow, suspended solids and COD based on each of the project's design and function. The percentages are weighted by total project costs and combined to determine the final three derived percentages. Total annual costs are then allocated based on the three derived percentages and the measured flow, suspended solids and COD of each Participating Agency.

Operation and maintenance (O&M) costs as a percentage of flow, suspended solids and COD are evaluated based on four cost categories: pump stations, plant operations, technical services and cogeneration. These percentages are weighted by the annual O&M costs for each category, and combined to determine a derived percentage for administrative costs. All O&M costs are then allocated based on the measured flow, suspended solids and COD of each Participating Agency.

CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT
Notes to the Schedule of Allocation for Billing to Metropolitan Wastewater Utility (Continued)
For the Fiscal Year Ended June 30, 2017

Note 8 – Administrative Protocol

In May 2010, the City of San Diego and all Participating Agencies signatory to the Regional Wastewater Disposal Agreement established an Administrative Protocol (Protocol) which was effective beginning in fiscal year 2010. The Protocol established a requirement that the Participating Agencies maintain a 1.2 debt service coverage ratio on parity debt, fund a 45-day operating reserve, and earn interest on the operating and unrestricted reserve accounts. All interest earned during fiscal year 2017 was credited to the operating reserve, which ended the fiscal year with the required 45-day reserve.

Note 9 – Pure Water Program

In 2014 the City of San Diego began planning for the Pure Water Program. The Pure Water Program is the City's phased, multi-year program that will provide one-third, or 83 million gallons per day (MGD), of San Diego's water supply locally by 2035. The Pure Water Program uses proven technology to clean recycled water to produce safe, high-quality drinking water while providing the benefit of continuing advanced primary treatment at the Point Loma Wastewater Treatment Plant. This program is being jointly funded by both water and wastewater ratepayers, and the Participating Agencies represent approximately 35% of the wastewater portion of this program. During FY2017 the following Pure Water Program costs were incurred that were charged to the Metropolitan Wastewater Fund:

	FY2017 Pure Water Program Costs
Total operating and maintenance costs	\$ 5,642,510
Capital improvement costs:	
Morena Blvd. Pump Station and Pipelines	3,280,849
North City Water Reclamation Plant	
Expansion	3,482,119
Metropolitan Biosolids Center (MBC)	136,068
Improvements	
Total capital improvement costs	6,899,036
Total Pure Water Program – Metropolitan Wastewater Fund costs	\$ 12,541,546

Pure Water O&M costs consist of task orders for various engineering consultants and other support services that cannot be directly capitalized into a capital improvement project. The final cost allocation of O&M task orders, as well as capital improvement projects is currently in progress and is expected to be finalized in FY2020. At that time, if changes to the draft cost allocation of project costs between water and wastewater is needed, an adjustment will be made during the FY2020 audit of the Schedule.



Certified
Public
Accountants

**Independent Auditor's Report on Internal Control Over Financial Reporting and
on Compliance and Other Matters Based on an Audit of the Schedule
of Allocation for Billing to Metropolitan Wastewater Utility Performed
in Accordance with *Government Auditing Standards***

To the Honorable Mayor and City Council
of the City of San Diego
San Diego, California

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the Schedule of Allocation for Billing to Metropolitan Wastewater Utility (the Schedule) of the City of San Diego Public Utilities Department (PUD), an enterprise fund of the City of San Diego, California (the City), for the fiscal year ended June 30, 2017, and the related notes to the Schedule, and have issued our report thereon dated August 12, 2019. Our report contained an explanatory paragraph indicating that the Schedule was prepared for the purpose of complying with, and in conformity with, the accounting practices prescribed by the Regional Wastewater Disposal Agreement between the City of San Diego and the Participating Agencies in the Metropolitan Wastewater System dated May 18, 1998 and amended on May 15, 2000 and June 3, 2010.

Internal Control Over Financial Reporting

In planning and performing our audit of the Schedule, we considered the PUD's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the Schedule, but not for the purpose of expressing an opinion on the effectiveness of the PUD's internal control related to the Schedule. Accordingly, we do not express an opinion on the effectiveness of the PUD's internal control related to the Schedule.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the PUD's Schedule is free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, including the Regional Wastewater Disposal Agreement between the City and the Participating Agencies dated May 18, 1998 and amended on May 15, 2000 and June 3, 2010, noncompliance with which could have a direct and material effect on the determination of the Schedule amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*, including the requirements of the Regional Wastewater Disposal Agreement between the City and the Participating Agencies dated May 18, 1998 and amended on May 15, 2000 and June 3, 2010.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the PUD's internal control or on compliance related to the Schedule. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the PUD's internal control and compliance related to the Schedule. Accordingly, this report is not suitable for any other purpose.

A handwritten signature in black ink that reads "Macias Gini & O'Connell LLP". The signature is written in a cursive, flowing style.

San Diego, California
August 12, 2019

ATTACHMENT 4

San Diego Kelp Forest Ecosystem Monitoring Project (2019-2024)

METRO JPA/TAC**Staff Report**

Date:

Project Title: San Diego Kelp Forest Ecosystem Monitoring Project (2019-2024)**Requested Action:****Recommendations:**

Metro TAC:	Present to JPA as an informational item.
IROC:	No IROC presentation planned. Funds for this longstanding agreement are budgeted in the Annual Budget within the Metro Operating Fund and do not require IROC review.
Prior Actions: (Committee/Commission, Date, Result)	Heard by Environmental Committee on June 13, 2019 Approved on consent by full Council on July 9, 2019

Fiscal Impact:

Is this projected budgeted?	Yes <u>X</u> No <u> </u>
Cost breakdown between Metro & Muni:	100% Metro
Fiscal impact to the Metro JPA:	33% (~\$1,172,860)

Capital Improvement Program:

New Project?	Yes <u> </u> No <u> </u> N/A <u>X</u>
Existing Project?	Yes <u>X</u> No <u> </u> Upgrade/addition <u> </u> Change <u> </u>

Previous TAC/JPA Action:

Previous TAC/JPA Action: Previous 4- or 5-year projects for 2006-2010, 2010-2014, 2014-2019 presented to Metro TAC and Metro JPA in 2006, 2010 and 2014, respectively.

Additional/Future Action: N/A**City Council Action:**

Heard by Environmental Committee on June 13, 2019
Approved on consent by full Council on July 9, 2019

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

This agreement allows for continued monitoring of the San Diego region's kelp forests and provides important information relevant to the City's 301(h) modified permit for the Pt Loma Wastewater Treatment Plant.

Discussion: *Provide information on decisions made to advance the project*

This program has been ongoing as 4- or 5-year agreements for the past 17 years, as well as additional work from 1992 through 2002. The project serves as a critical link between the City's core monitoring efforts focused in offshore waters and requirements for more near shore habitats associated with the Marine Life Protection Act and other needs.

Bid Results: *If bidding was done provide bidding format and results*

ATTACHMENT 10

Financial Update

- a. Tracking of Metro System
Capital Cost Contributions to
Pure Water Program (Cap
Status Report)
- b. JPA 2017 Budget
Reconciliation

CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT
Notes to the Schedule of Allocation for Billing to Metropolitan Wastewater Utility (Continued)
For the Fiscal Year Ended June 30, 2017

Note 8 – Administrative Protocol

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Note 9 – Pure Water Program

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JPA Budget Reconciliation -- FY 2017

Agency	Adopted/Billed FY '17		Audited FY'17		
	Commission Flow Distribution %	Total Agency Billings	Audit Flow/Strength Distribution	Total Agency Billings Per Audit	Over/ (Under) Budget
Chula Vista	31.48%	\$ 35,777	30.54%	\$ 34,705	\$ (1,072)
Coronado	3.10%	\$ 3,524	2.69%	\$ 3,057	\$ (467)
County of SD	15.05%	\$ 17,106	15.08%	\$ 17,135	\$ 29
Del Mar	1.11%	\$ 1,258	1.00%	\$ 1,136	\$ (122)
El Cajon	14.48%	\$ 16,454	14.99%	\$ 17,031	\$ 577
Imperial Beach	4.31%	\$ 4,899	3.64%	\$ 4,138	\$ (761)
La Mesa	8.74%	\$ 9,936	8.42%	\$ 9,575	\$ (361)
Lemon Grove	4.15%	\$ 4,713	2.92%	\$ 3,321	\$ (1,392)
National City	7.89%	\$ 8,961	7.30%	\$ 8,301	\$ (660)
Otay Water District	0.42%	\$ 472	1.29%	\$ 1,464	\$ 992
Padre Dam MWD	4.15%	\$ 4,721	7.15%	\$ 8,130	\$ 3,409
Poway	5.13%	\$ 5,829	4.98%	\$ 5,657	\$ (172)
Total Flow & Strength	100.00%	\$ 113,650	100.00%	\$ 113,650	\$ 0

ATTACHMENT 12

Metro TAC Work Plan

Metro TAC & JPA Work Plan
Active & Pending Items
June 2019
Updated Items in Red Italics

Active Items	Description	Member(s)
<i>Strategic Plan Ad HOC</i>	<i>The JPA last updated their strategic plan in 2015. The Ad Hoc was formed to determine should there be a 2019 strategic plan update and if so what format it should follow. First meeting held June 2019. Two work sessions to be held in August are planned with the goal of presenting a draft 2019 Strategic Plan to the JPA in October 2019.</i>	<i>Whitney Benzian Jerry Jones Gary Kendrick John Mullin Ed Spriggs JPA staff</i>
<i>SB 332 Working Group</i>	<i>SB 332 (Hertzberg/Weiner) relates to wastewater treatment for recycled water and agencies with ocean outfalls. It requires the entity that owns the wastewater treatment facility that discharges through an ocean outfall and affiliated water suppliers (it defines water not wastewater suppliers) to reduce the facilities annual flow as compared to the average annual dry weather wastewater discharge baseline volume as prescribed by at least 50% on or before January 1, 2030 and by at least 95% on or before January 1, 2040. The working group was formed to track the process of this legislation.</i>	<i>Yazmin Arellano Beth Gentry Hamed Hashemian</i>
Muni Transportation Rate Study Working Group	San Diego has hired Carollo Engineers to review the existing transportation rate structure. A work group has been formed to review and give input. First meeting will be in December 2017. Although this is a muni issue it is included on the work plan due to its significance and potential effect on all Metro TAC members. 3/18: Technical consultants to meet with PUD staff and Carollo on 3/22/18 to review model in detail 6/18: JPA technical consultants continue to work with PUD staff on understanding rate calculations 1/19: Working group still meeting with PUD staff & consultants. <i>6/19: Working Group has presented an alternative plan in November 2018 which the City and their consultants are reviewing.</i>	Roberto Yano Yazmin Arellano Dan Brogadir Carmen Kasner Mark Niemiec Dexter Wilson SD staff
Point Loma Permit Ad Hoc	Metro Commission/JPA Ad Hoc established 9/17. GOAL: Create regional water reuse plan so that both a new, local, diversified water supply is created AND maximum offload at Point Loma is achieved to support legislation for permanent acceptance of Point Loma as a smaller advanced primary plant. Minimize ultimate Point Loma treatment costs and most effectively spend ratepayer dollars through successful coordination between water and wastewater agencies. 10/17: Group has met several times. Discussions are ongoing. 3/18: Group continues to meet at least monthly. 6/18: Group continues to meet monthly. Outreach subgroup formed. <i>1/19: This group continues to meet as needed.</i>	Jerry Jones Jim Peasley Ed Spriggs Bill Baber Steve Padilla Metro TAC staff & JPA consultants
Phase II Pure Water Facilities Working Group	Created to work with SD staff & consultants on determining Phase II facilities. 1/19: Work group has eliminated two alternatives and continues to review updated facilities and their costs. Presentation to Metro TAC by Stantec re: Phase 2 Flows and Loads. Copy attached to Metro TAC minutes. <i>6/19: Phase II alternative presented to Metro TAC in May and JPA in June 2019. Copy of presentation can be found in minutes to those meetings. Alternatives narrowed to two main alternatives.</i>	Roberto Yano Seval Sen Scott Tulloch Dexter Wilson SD staff & consultants

Metro TAC & JPA Work Plan
Active & Pending Items
June 2019
Updated Items in Red Italics

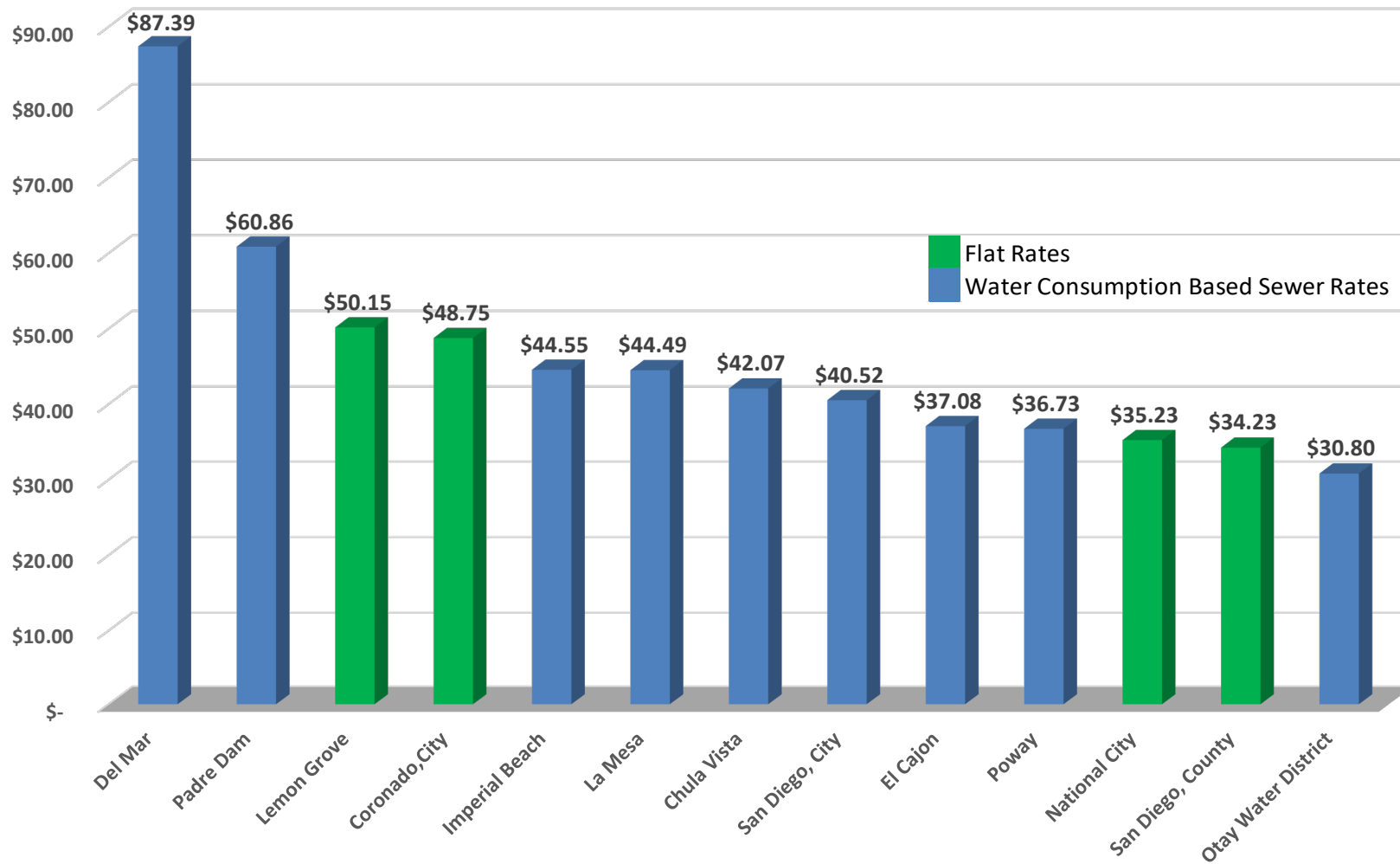
Active Items	Description	Member(s)
Residuals Management Working Group	This working group was formed to continue work on Sections 2.9.2 and 2.9.3 of the Amended and Restated Agreement regarding the potential transfer of the East Mission Gorge Pumps Station and the disposal, treatment, or transfer of residuals. 1/19: Group continues to meet. 3/19: Working Group has been meeting w/Padre Dam, Coronado, & Otay. <i>6/19: Draft agreement has been prepared and is being reviewed/refined.</i>	Eric Minicilli Yazmin Arellano Dan Brogadir Seval Sen Scott Tulloch Dexter Wilson SD staff & consultants
Phase I Financial Implementation Working Group	This working group was formed to continue to work on Section 2.9.1 and other financial implementations issues associated with the Amended Restated Agreement. 1/19: Working group had formation meeting. Has prepared draft task list and task assignments for group members and SD staff. Will meet at least monthly until tasks are complete. Ownership of EMGPS determined. Appraisal in complete. <i>6/19: Group will start meeting in July 2019 on a regular basis.</i>	Roberto Yano Karyn Keese Dexter Wilson SD staff & consultants
Phase II Disposal Agreement Working Group	This group replaces the Debt Allocation Working Group with the approval of the Amended and Restated Agreement for Phase 1. 1/19: Group will start meeting in February.	Roberto Yano Karyn Keese Scott Tulloch Dexter Wilson SD staff & consultants
Pretreatment Working Group	Formed to work with San Diego on new standards for industrial waste discharge. 1/19: SD has received draft report from consultant but has sent back for revisions. Second draft will be reviewed by working group. <i>6/19: Working group has met and reviewed draft of report. Presentation made by Stantec of recommendations to Metro TAC. Copy attached to June agenda.</i>	Yazmin Arellano Mark Niemiec Ed Walton Beth Gentry Dexter Wilson SD Staff & Consultants
JPA Website Update Working Group	The JPA Website, especially the New Director Manual, has not been updated for several years. As we have several new Directors, the manual needs to be updated. 1/19: Working group formed. First meeting 2/20/19. <i>6/19: Group continues to meet and work on updating website. Goal is to totally revise New Director's Manual by end of October once Strategic plan is completed.</i>	Roberto Yano Karyn Keese Lori Peoples Susan Spotts
Exhibit E Audit	<i>1/19: FYE 2017 fieldwork complete. 3/19: FYE 2018 entrance conference complete. Sample selection complete. 6/19: FY 2018 fieldwork completed week of June 17, 2019.</i>	Karen Jassoy Karyn Keese Dexter Wilson
IRWMP	Members should monitor funding opportunities at: http://www.sdirwmp.org 1/19: PA representatives continue to report monthly at Metro TAC 3/19: Minutes from 3/20/19 Meeting attached to work plan. <i>6/19: Metro TAC given monthly updates. See Metro TAC minutes for updates.</i>	Yazmin Arellano Beth Gentry
Strength Based Billing Evaluation	San Diego will hire a consultant every three years to audit the Metro metered system to insure against billing errors. 1/19: 2019 is the year for the billing review. Scope to be discussed at Financial Implementation Work Group and then brought to TAC. This group combined w/ Sample Rejection Protocol Working Group. SBB workshop by SD staff still outstanding. 3/20: JH will provide training schedule for SBB at April TAC meeting.	Dan Brogadir Dennis Davies? Karyn Keese Mark Niemiec Dexter Wilson SD Staff



Metro TAC & JPA Work Plan
Active & Pending Items
June 2019
Updated Items in Red Italics

Active Items	Description	Member(s)
Changes in water legislation	Metro TAC and the Board should monitor and report on proposed and new legislation or changes in existing legislation that impact wastewater conveyance, treatment, and disposal, including recycled water issues	Inactive; Members added as needed

Sewer Rate Comparison for Metro Participating Agencies
Single Family Monthly Rates Based on 7 HCF of Water Usage
Effective March 1, 2019 for FY 2019



Metro TAC Participating Agencies Selection Panel Rotation

Agency	Representative	Selection Panel	Date Assigned
County of San Diego	Dan Brogadir	As-Needed Condition Assessment Contract	3/24/2015
Chula Vista	Roberto Yano	Out on Leave	6/10/15
La Mesa	Greg Humora	North City to San Vicente Advanced Water Purification Conveyance System	6/10/15
Poway	Mike Obermiller	Real Property Appraisal, Acquisition, and Relocation Assistance for the Public Utilities Department	11/30/15
El Cajon	Dennis Davies	PURE WATER RFP for Engineering Design Services	12/22/15
Lemon Grove	Mike James	PURE WATER RFP Engineering services to design the North City Water reclamation Plant and Influence conveyance project	03/16/15
National City	Kuna Muthusamy	Passes	04/04/2016
Coronado	Ed Walton	As-Needed Environmental Services - 2 Contracts	04/04/2016
Otay Water District	Bob Kennedy	As Needed Engineering Services Contract 1 & 2	04/11/2016
Del Mar	Eric Minicilli	Pure Water North City Public Art Project	08/05/2016
Padre Dam	Al Lau	Biosolids/Cogeneration Facility solicitation for Pure Water	08/24/2016
County of San Diego	Dan Brogadir	Pure Water North City Public Art Project	08/10/2016
Chula Vista	Roberto Yano	Design Metropolitan Biosolids Center (MBC) Improvements Pure Water Program	9/10/2016
La Mesa	Greg Humora	Design of Metropolitan Biosolids Center (MBC) Improvements	9/22/16
Poway	Mike Obermiller	Electrodialysis Reversal (EDR) System Maintenance	12/7/16
El Cajon	Dennis Davies	As-Needed Construction Management Services for Pure Water	3/13/17
Lemon Grove	Mike James	Morena Pipeline, Morena Pump Station, Pure Water Pipeline and Dechlorination Facility, and the Subaqueous Pipeline	8/7/17
National City	Vacant	North City and Miramar Energy Project Landfill Gas and Generation- Pass	1/31/2018
Coronado	Ed Walton	North City and Miramar Energy Project Landfill Gas and Generation	1/31/2018
Otay Water District	Bob Kennedy	As Needed Engineering Services - Contracts 3 and 4 (H187008 & H187009)	2/16/2018
Del Mar	Joe Bride	Request for Proposal Owner Controlled Insurance Program (OCIP) Pure Water – 1 st email sent on 5/23/18 & 2 nd email sent on 5/29/18	5/23/18
Padre Dam	Al Lau	Request for Proposal Owner Controlled Insurance Program (OCIP) Pure	5/31/18

		Water (Mark Niemiec will participate)	
County of San Diego	Dan Brogadir	Request for Owner Controlled Insurance Program Interview (Pure Water)	2/25/19
Chula Vista	Frank Rivera Beth Gentry	Request for Owner Controlled Insurance Program Interview (Pure Water)	2/26/19
Imperial Beach	Eric Minicilli		
La Mesa	Hamed Hashemian		
Poway	Mike Obermiller Rudy Guzman		
El Cajon	Dennis Davies Yazmin Arellano		
Lemon Grove	Mike James		
National City	Roberto Yano		
Coronado	Ed Walton		
Otay Water District	Bob Kennedy		
Del Mar	Joe Bride		
Padre Dam	Mark Niemiec Sen Seval		
County of San Diego	Dan Brogadir		
Chula Vista	Frank Rivera		
Imperial Beach	Eric Minicilli		
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