



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, April 19, 2017

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

LOCATION: MWWD, 9192 Topaz Way, (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 [March 15, 2016](#) (**Attachment**)
2. Metro Commission/JPA Board Meeting Recap (Standing Item)
3. **REPORT:** Update from Regional Wastewater Disposal Agreement Flow Commitment Working Group (Yazmin Arellanos)
4. **REPORT:** Update from Pure Water Facilities Working Group
5. **REPORT:** Update from Sample Rejection Protocol Working Group (Edgar Patino)
6. **REPORT:** Pure Water Facilities Subcommittee
7. **ACTION:** Consideration and Possible Action to Approve Agreement with CH2M Hill Engineers, Inc. for Design Engineering Services for the North City Metropolitan Biosolids Center (MBC) Improvements (Amy Dorman/Monika Smoczynski) (**Attachment**)
8. Metro Wastewater Update (Standing Item) (Edgar Patino)
9. Pure Water Program Update (Standing Item)
10. Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung)
11. Financial Update (Standing Item) (Karyn Keese) (**Attachment**)
 - FYE 2018 Metro Budget Update
12. IRWMP Update (Standing Item) (Robert Yano)
13. MetroTAC Work Plan (Standing Item) (Greg Humora) (**Attachment**)
14. Point Loma Permit Renewal (Standing Item) (Greg Humora)
15. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (**May 4, 2017**)

16. Other Business of Metro TAC

17. Adjournment ([To the next Regular Meeting May 17, 2017](#))

Metro TAC 2017 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
Action Minutes of
March 15, 2017

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

ACTION MINUTES

DATE OF MEETING: March 15, 2017

TIME: 11:00 AM

LOCATION: MOC II Auditorium

MEETING ATTENDANCE:

Greg Humora, La Mesa
Robert Yano, Chula Vista
Yazmin Arellano, El Cajon
Dennis Davies, El Cajon
Chris Helmer, Imperial Beach
Erin Bullers, La Mesa
Mike James, Lemon Grove
Dexter Wilson, Lemon Grove
Kuna Muthusamy, National City
Steve Beepler, Otay MWD
Al Law, Padre Dam
Alex Heide, Poway
Terry Zaragoza, Poway
Dan Brogadir, County of San Diego

John Helminski, City of San Diego
Amer Barhoumi, City of San Diego
Amy Dorman, City of San Diego
Seth Gates, City of San Diego
Edgar Patino, City of San Diego
Charlotte Strong-Williams, City of SD

Scott Tulloch, NV5
Karen Jassoy, Metro JPA Treasurer
Lori Anne Peoples, Metro Comm/Metro JPA/MetroTAC

1. Review and Approve MetroTAC Action Minutes for the Meeting of February 15, 2017

Mike James moved approval of the February 15, 2017 minutes. The motion was seconded by Roberto Yano, and the minutes were approved unanimously.

2. Metro Commission/JPA Board Meeting Recap (Standing Item)

Chair Humora stated That the JPA had discussion on the Pt. Loma Permit modification order and a letter had been issued on behalf of the JPA to the RWQCB. All construction items were put into the permit which raises big concerns with no Secondary, no financing etc. A continuance was asked for to review or remove and put it back to what it was previously. The City of San Diego was asked to clarify the off ramp. The Attorneys are working together and the JPA has

asked the City of San Diego to speak to the Regional Board. San Diego sent a letter comment to the Regional Board and copied the JPA requesting the co-generation facility be removed but the JPA wants more. The JPA is looking at drafting another letter with concerns and will take this up again at the April meeting, prior to going to the Regional Board which is scheduled for April 12th. Greg noted that he had sent a sample letter to all of the PA's to use if they wanted. The comment period ended February 24th and comments can still be taken but won't go into the "official record". The JPA selected Jerry Jones of the Lemon Grove Sanitation District as its Chair and Jim Peasley from Padre Dam Municipal Water District as Vice Chair.

3. **REPORT: Update from Regional Wastewater Disposal Agreement Flow Commitment Working Group**

Yazmin Arellano stated that the group met prior to the TAC meeting with the City of San Diego who agreed to provide the working group the supporting analysis, if available, done to determine the tiers of facility improvements proposed in the 2012 Recycle Water Study. This information is needed as the working group is contemplating developing scope of work for a consultant to review all this information to see if there is an opportunity to reduce capital costs at Point Loma if it did not need to treat 240 MGD. The scope of work shall include the preparation of a study to set the exposure costs for the Participating Agencies, since there is an overall concern that the PA's will end up paying for both Pure Water and secondary treatment at Point Loma. The working group recommended including an item in the next Finance Committee Meeting: "Possible Outside Consultant Contracts in Addition to NV5 and Karyn Keese." Greg Humora added that once the scope of work is finalized, the working group should request proposals to present to the Finance Committee and that the working group should invite the City of San Diego to participate in that study.

4. **REPORT: Update from Sample Rejection Protocol Working Group**

Edgar Patino stated that the group had nothing new to report.

5. **ACTION: Consideration and Possible Action to Approve Pump Station 2 Power Reliability & Surge Protection**

Amer Barhoumi, City of San Diego, provided a verbal overview of his Power Point presentation. The award of construction contract has increased by \$29M. The 2001 initial scope presented was \$31M; 2014 increased the scope to \$43M and the current final scope is \$72.2M or a \$29.12M increase. The engineering estimate was \$53M with \$56M being the lowest bid.

Dexter inquired as to the current budget cost to the PA's and was informed it was \$9.8M.

Seth stated that the City had received approval to apply for State Revolving Funds and expect it to be fully financed. There is no anticipated additional financial impact to the PA's and the SRF has a fixed interest rate.

Upon Motion by Dan Brogadir, seconded by Al Law, the item was approved unanimously.

6. **ACTION: Consideration and Possible Action to Approve Agreement with CH2M Hill Engineers, Inc. for Design Engineering Services for the North City Metropolitan Biosolids Center (MBC) Improvements**

Amy Dorman, City of San Diego, provided a handout (Attachment A to these Minutes), and a brief verbal overview of the Power Point presentation. She noted that there was a \$40M estimated construction cost which would be 100% wastewater based on prior meetings.

Greg stated they were in the process of trying to evolve as discussions are on the engineering side and they are trying to get the cost allocation upgrade split.

Motion by Kuna Muthusamy, seconded by Roberto Yano, to approve the Agreement. Motion carried by unanimous vote.

7. **ACTION: Consideration and Possible Action to Create a Pure Water Facilities Subcommittee and Appointing Members**

John Helminski stated that after conversations yesterday with Scott Tulloch and Dexter Wilson, questions had come up regarding design for expansion and the thought was to put together a workshop with City Staff and a committee to review where they are at and come up with a protocol where the TAC team is involved early enough to make impact early so as not to disrupt the entire flow on basic technical issues.

Scott Tulloch added that also not just specific projects, but perhaps technical memos and programmatic level.

Motion by Greg Humora, seconded by Dennis Davies to create a subcommittee of Dexter Wilson, Scott Tulloch, Al Law, Yazmin Arellano and Roberto Yano with Steve Beepler as an Alternate. Motion carried unanimously.

8. **ACTION: Review and Consideration and Possible Action to Recommend the Metro Commission/Metro Wastewater JPA Approve the JPA Mid-Year Budget Review**

Metro JPA Treasurer Karen Jassoy provided a verbal overview of the 6 month budget noting that page 2 had a snapshot of the cash position.

Motion by Roberto Yano, seconded by Mike James for approval. Motion carried unanimously.

9. ACTION: Review and Consideration and Possible Action to Recommend the Metro Commission/Metro Wastewater JPA Approve the JPA Hypothetical Financing Schedule

Greg stated that the schedule was received after Karyn Keese's discussions with Fieldman & Rolapp. This provides due diligence in keeping the JPA financing as back up to assist the members if needed. This item was actually an information only item.

10. Metro Wastewater Update (Standing Item)

Edgar reminded everyone that they are revising the FY 18 estimates. This was the last week for submittal of any flow adjustments and he requested they contact either him or Peggy prior to their Amnesty Period ending.

Dan Brogadir inquired as to why the document reads as not including Pure Water.

Seth stated that Karyn Keese's billing estimate of \$77M was with the understanding that a lot of items create variables and that the Pure Water Program facilities are financed in part by SRF loans. The one Karyn provided is a baseline including financing and this was passed out to the PAs in October 2016. The other forecast showing a higher range of estimates was passed out in September 2016 and includes minimal financing. Seth felt that a larger range means more of a "true estimate" as they have not secured financing to date although the PUD staff is still pursuing it. It also provides most likely the worst cast estimate, Further, he was hoping if SRF is not approved, they could go back and pick up soft costs to finance the PA's as well as looking at a lot of other options including when the City issues their first wastewater debt issue, potentially in February 2020.

Dexter inquired as to whether the financing could be carried out further than 5 years. Seth responded that they could do a 10 year if they could show the rating agencies. What was presented reflects the accelerated schedule at 50/50.

Greg inquired as to which PA's were raising their sewer rates to which all replied affirmative.

11. Pure Water Program Update (Standing Item)

John Helminski announced that Stone Brewing was holding an event Thursday, March 16th from 5 to 7 p.m. to taste beer brewed with purified water from the City's demonstration Pure Water Facility and Mayor Faulconer had invited the Metro JPA and MetroTAC to attend.

12. Metro Capital Improvement Program and Funding Sources (Standing item)

Tung Phung, Sr. Civil Engineer provided an update on the Metro CIP Projects highlighting the Pt. Loma Interceptors and Siphon Repair project.

Seth introduced Charlotte Strong-Williams who provided an update on the March 22nd discussion on funding for Pure Water.

13. Financial Update (Standing Item)

Karyn was not present and there was no report.

14. IRWMP Report (Standing Item)

Roberto stated he had no report.

15. MetroTAC Work Plan (Standing Item)

Chair Humora stated that the work plan was attached to the agenda.

16. Loma Permit Renewal (Standing Item)

Chairman Humora stated that the report was attached to the agenda, discussion was continuing and if anyone had any questions to call him.

17. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (April 19, 2017)

Pt. Loma Permit; Pump Station 2; MBC Contracts; Budget Update; Hypothetical Financing Schedule

15. Other Business of Metro TAC

None.

16. Adjournment to the next Regular Meeting, April 19, 2017

At 12:40 p.m. the meeting was adjourned.

Attachment 7

CH2M Hill

Engineers -

Design Svs

Public Utilities Department
Pure Water Division

Agreement with CH2M Hill Engineers, Inc. for Design Engineering Services for the North City Metropolitan Biosolids Center (MBC) Improvements Project

Presentation to Metro Technical Advisory Committee

Amy Dorman, Program Manager
Monika Smoczynski, Associate Engineer

March 15, 2017



Project Objective/ Purpose

- Component of North City Phase - Pure Water
- NCWRP will undergo an expansion to process additional wastewater flows
- MBC will experience higher biosolids flows
- To accommodate additional flows, upgrades and improvements at MBC will be required
- Project scope includes other recommended improvements not driven by the Pure Water Program



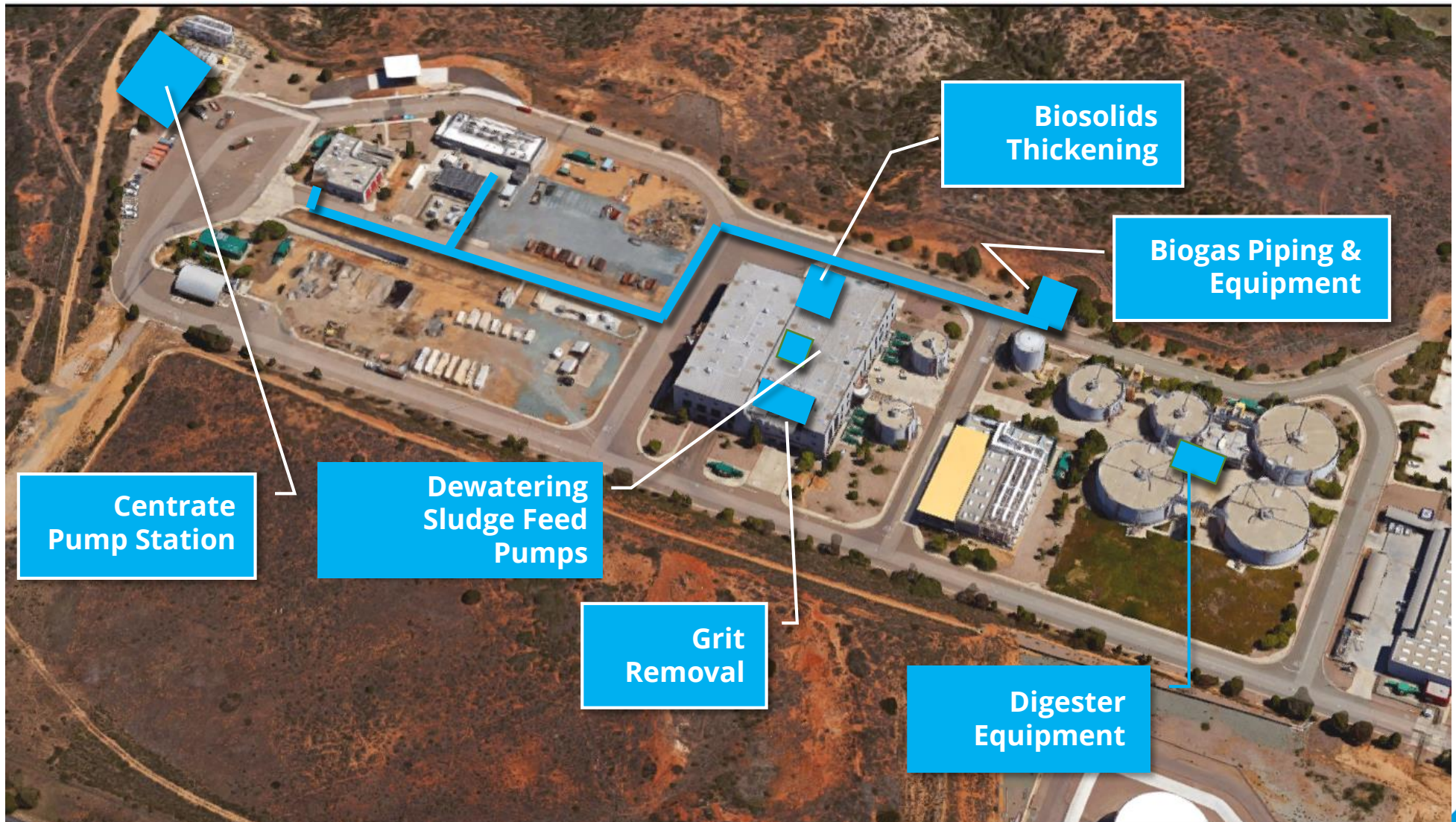
Project Scope

Unit Process	Description of Improvements (Pure Water Related)	Other Recommended Improvements (Other facility Improvements)
Grit Removal	<ul style="list-style-type: none">▪ Install two grit separators for a total of five▪ Expand Area 76 Building, if required, to accommodate expanded grit system▪ Other related equipment: raw solids feed pumps, VFD's, grit dewatering units and screw conveyors	
Biosolids Thickening	<ul style="list-style-type: none">▪ Install six new larger centrifuges to replace the existing▪ Other related equipment: digester feed pumps, thickening centrifuge feed pumps, and polymer feed pumps	
Anaerobic Digestion	<ul style="list-style-type: none">▪ Construct new biogas laterals and upgrade digester gas-handling equipment▪ Install one new flare for a total of three	<ul style="list-style-type: none">▪ Replace recirculation pumps, mixing pumps, and axial mixing pumps
Sludge Dewatering	<ul style="list-style-type: none">▪ None	<ul style="list-style-type: none">▪ Install eight new sludge feed pumps and polymer feed pumps
Centrate Pump Station	<ul style="list-style-type: none">▪ Install three new 250-hp centrate pumps to replace existing pumps	

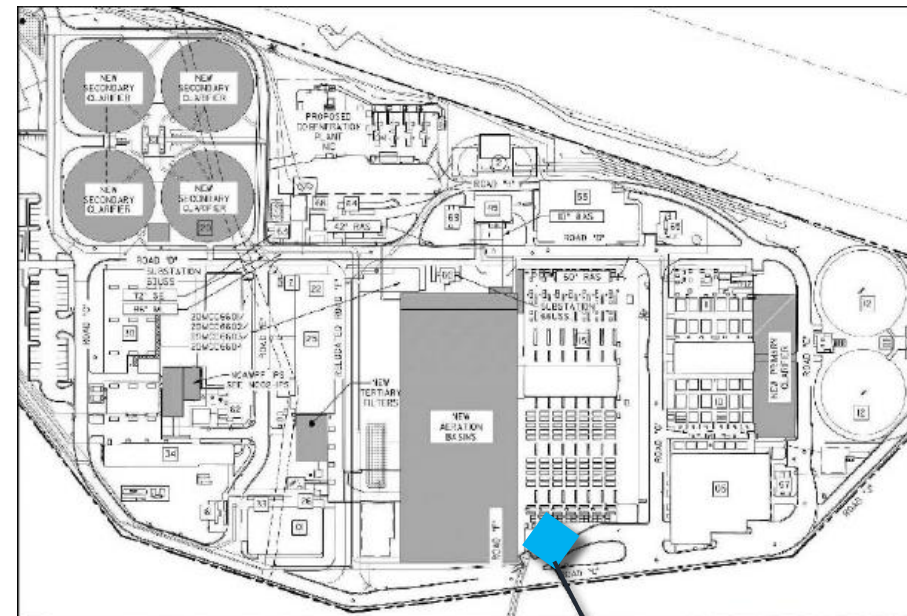
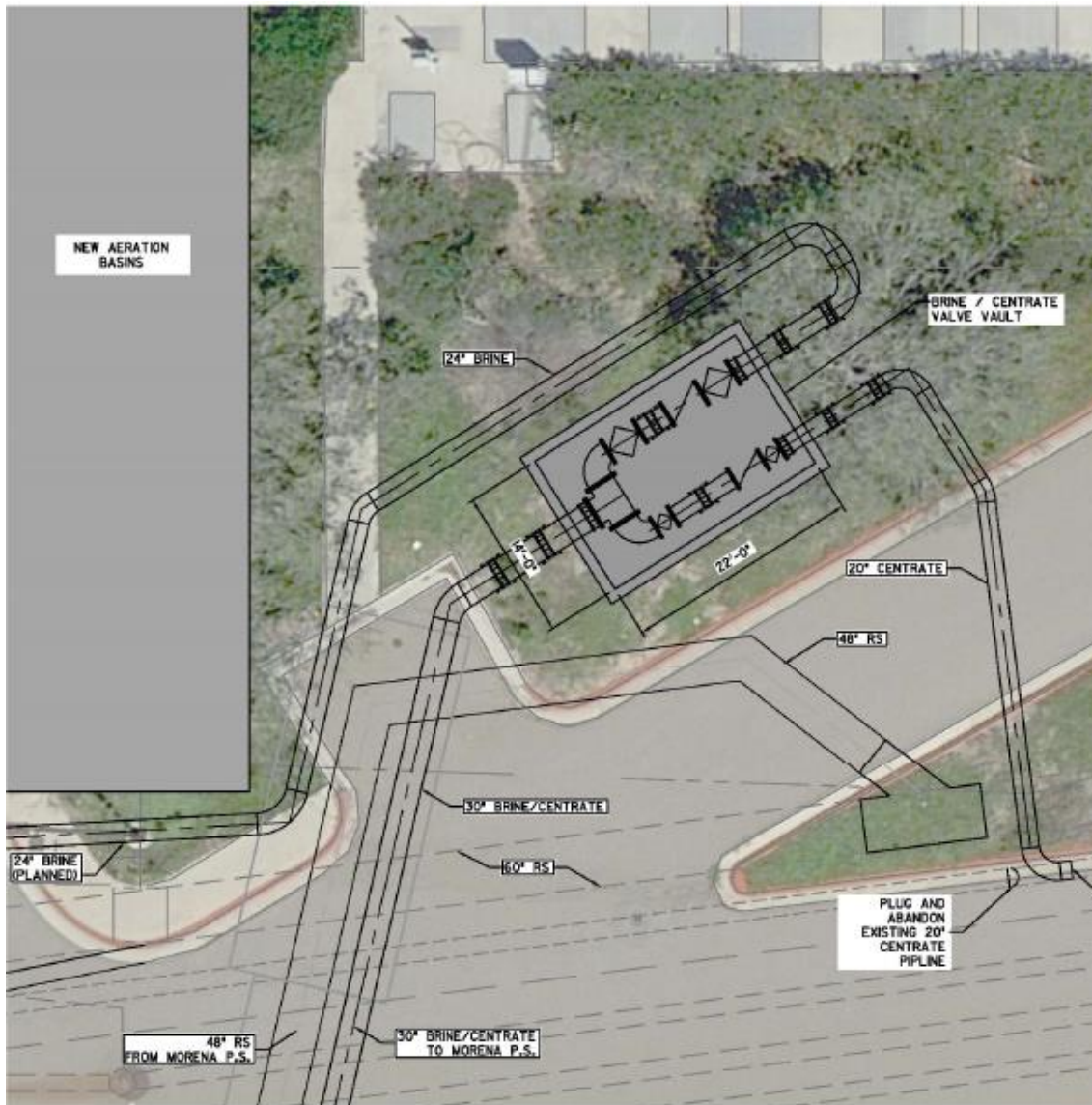
Note:

1. The table does not include other miscellaneous equipment (ex. pumps, valves, PRV's, flame arrestors, etc.) which will be installed as part of the MBC improvements project.
2. Drivers behind "Other Recommended Improvements"-increased O&M costs, equipment age, and redundancy.

MBC Aerial View - Proposed Upgrades



MBC Centrate



New Centrate
Valve Vault

Proposed Contract

- In September 2016, PUD advertised a Request for Proposal for design engineering services in support of the MBC Improvements project
- Three firms submitted proposals; all were interviewed
- Interview Panel: 4 City, 1 Metro TAC and 1 IROC members
- CH2M Hill Engineers, Inc. was selected as the most highly qualified firm
- Total contract amount: \$5,051,090
 - Fiscal Impact to Metro JPA: \$1,700,000 (33.5% of Metro Cost)
- Contract duration: 5 years



Q & A



Attachment 11
FYE 2018 Metro
Budget Update

Comparison: FYE 2017 Budget Allocations Versus FYE 2018

	FYE 2017 (Budget)		FYE 2018 (Jan Est)		FYE 2018 (Revised Est.)	
	Dollars	Percentage	Dollars	Percentage	Dollars	Percentage
CHULA VISTA	\$ 18,172,521	27.80%	\$20,885,950	29.56%	\$21,512,438	30.73%
CORONADO	\$ 2,942,344	4.50%	3,111,245	4.40%	\$3,204,906	4.58%
DEL MAR	\$ 65,660	0.10%	39,574	0.06%	\$40,766	0.06%
EAST OTAY MESA	\$ 27,705	0.04%	210,439	0.30%	\$216,825	0.31%
EL CAJON	\$ 8,823,477	13.50%	9,692,081	13.72%	\$9,978,713	14.26%
IMPERIAL BEACH	\$ 2,337,120	3.57%	2,587,296	3.66%	\$2,670,649	3.82%
LAMESA	\$ 4,787,725	7.32%	5,145,461	7.28%	\$5,312,343	7.59%
LAKESIDE/ALPINE	\$ 4,060,873	6.21%	3,711,326	5.25%	\$3,821,461	5.46%
LEMON GROVE	\$ 2,404,614	3.68%	2,697,369	3.82%	\$2,781,943	3.97%
NATIONAL CITY	\$ 5,504,537	8.42%	6,058,813	8.57%	\$4,921,665	7.03%
OTAY	\$ 654,255	1.00%	577,254	0.82%	\$589,748	0.84%
PADRE DAM	\$ 3,657,375	5.59%	4,604,853	6.52%	\$4,721,564	6.74%
POWAY	\$ 2,877,234	4.40%	4,590,229	6.50%	\$3,272,538	4.67%
SPRING VALLEY	\$ 7,865,472	12.03%	5,506,593	7.79%	\$5,675,050	8.11%
WINTERGARDENS	\$ 1,195,112	1.83%	1,243,962	1.76%	\$1,280,413	1.83%
	\$ 65,376,024	100.00%	\$70,662,445	100.00%	\$70,001,022	100.00%

Difference from January 2017 Estimate:

-\$661,423 -0.9%

TABLE A

CITY OF SAN DIEGO - PUBLIC UTILITIES DEPARTMENT
FISCAL YEAR 2018 ESTIMATED UNIT COSTS
FUNCTIONAL-DESIGN COST ALLOCATION METHOD

TREATMENT PARAMETER	FY 2018 BUDGET		UNITS	COST PER UNIT
WASTEWATER FLOW	AMOUNT	%		
	\$99,982,888	49.3%	58,035 (a)	\$1,722.80 /per Million Gallons
SUSPENDED SOLIDS	\$54,512,764	26.9%	171,915 (b)	\$317.09 /per Thousand Pounds
CHEMICAL OXYGEN DEMAND	\$48,391,542	23.9%	315,725 (c)	\$153.27 /per Thousand Pounds
TOTAL	\$202,887,194	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 2018
 FUNCTIONAL-DESIGN BASED ALLOCATION METHOD

AGENCY	ALLOCATION OF COSTS BY FLOW, SUSPENDED SOLIDS AND CHEMICAL OXYGEN DEMAND			
	FLOW (a)	SS (a)	COD (a)	TOTAL FLOW, SS & COD
CHULA VISTA	\$10,558,410	\$5,712,886	\$5,241,143	\$21,512,438
CORONADO	\$1,584,609	\$942,600	\$677,697	\$3,204,906
DEL MAR	\$20,207	\$13,457	\$7,103	\$40,766
EAST OTAY MESA	\$108,856	\$59,609	\$48,360	\$216,825
EL CAJON	\$4,764,908	\$2,963,575	\$2,250,231	\$9,978,713
IMPERIAL BEACH	\$1,499,219	\$617,713	\$553,717	\$2,670,649
LA MESA	\$3,018,644	\$1,209,516	\$1,084,183	\$5,312,343
LAKESIDE/ALPINE	\$1,836,869	\$1,075,961	\$908,632	\$3,821,461
LEMON GROVE	\$1,485,530	\$675,529	\$620,884	\$2,781,943
NATIONAL CITY	\$2,542,153	\$1,162,312	\$1,217,200	\$4,921,665
OTAY	\$131,671	\$291,995	\$166,083	\$589,748
PADRE DAM	\$1,616,549	\$1,873,475	\$1,231,540	\$4,721,564
POWAY	\$1,681,732	\$909,328	\$681,477	\$3,272,538
SPRING VALLEY	\$2,893,492	\$1,540,036	\$1,241,522	\$5,675,050
WINTERGARDENS	\$600,339	\$388,862	\$291,212	\$1,280,413
SUBTOTAL PARTICIPATING AGENCIES	\$34,343,187	\$19,436,852	\$16,220,984	\$70,001,023
SAN DIEGO	\$65,639,701	\$35,075,912	\$32,170,558	\$132,886,171
TOTAL	\$99,982,888	\$54,512,764	\$48,391,542	\$202,887,194

(a) Allocations based on estimated annual flows and strength loadings - See Table C

TABLE C

CITY OF SAN DIEGO - PUBLIC UTILITIES DEPARTMENT
SYSTEM WASTEWATER CHARACTERISTICS - FISCAL YEAR 2018
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)	2018 FLOWS million gallons	SS thousand pounds	COD thousand pounds	2018 FLOWS million gallons	SS thousand pounds	COD thousand pounds
CHULA VISTA	16.198	268	742	5,912.270	13,239	36,616	6,128.622	18,017	34,195
CORONADO	2.431	295	639	887.315	2,184	4,735	919.785	2,973	4,422
DEL MAR	0.031	330	526	11.315	31	50	11.729	42	46
EAST OTAY MESA	0.167	272	664	60.955	138	338	63.186	188	316
EL CAJON	7.310	308	706	2,668.150	6,868	15,721	2,765.788	9,346	14,681
IMPERIAL BEACH	2.300	204	552	839.500	1,431	3,868	870.220	1,948	3,613
LA MESA	4.631	199	537	1,690.315	2,803	7,574	1,752.170	3,814	7,074
LAKESIDE/ALPINE	2.818	291	740	1,028.570	2,493	6,348	1,066.209	3,393	5,928
LEMON GROVE	2.279	226	625	831.835	1,565	4,338	862.275	2,130	4,051
NATIONAL CITY	3.900	227	716	1,423.500	2,694	8,504	1,475.591	3,666	7,941
OTAY	0.202	1,100	1,886	73.730	677	1,160	76.428	921	1,084
PADRE DAM	2.480	575	1,139	905.200	4,342	8,604	938.325	5,908	8,035
POWAY	2.580	268	606	941.700	2,107	4,761	976.160	2,868	4,446
SPRING VALLEY	4.439	264	642	1,620.235	3,569	8,674	1,679.525	4,857	8,100
WINTERGARDENS	0.921	321	725	336.165	901	2,034	348.467	1,226	1,900
SUBTOTAL PARTICIPATING AGENCIES	52.687	280	704	19,230.755	45,042	113,324	19,934.480	61,297	105,832
SAN DIEGO	100.700	265	733	36,755.500	81,284	224,753	38,100.520	110,618	209,893
REGIONAL SLUDGE RETURNS	5.613	2,667	(1,307)	2,048.745	45,589	(22,352)			
TOTAL	159.000	355	652	58,035.000	171,915	315,725	58,035.000	171,915	315,725

(a) Estimated flows based on sewage Flow projections provided by Participating Agencies & San Diego December 2016 and January 2017

(b) SS and COD characteristics based on samples taken by Public Utilities Environmental Monitoring and Technical services division in FY 2015.

Otay loads based on FY 2015 Mass Balance.

54.86

2.17

Mass Balance provided by the PUD Engineering & Program Management division January 9, 2017.

TABLE D

CITY OF SAN DIEGO - PUBLIC UTILITIES DEPARTMENT
ALLOCATION OF FISCAL YEAR 2018 ESTIMATED BUDGET
FUNCTIONAL-DESIGN BASED ALLOCATION METHOD

DESCRIPTION	FY 2018 BUDGET COSTS	ALLOCATION OF COSTS						
		FLOW %	FLOW COSTS	SS %	SS COSTS	COD %	COD COSTS	TOTAL COSTS
<u>OPERATION AND MAINTENANCE:</u>								
TRANSMISSION AND SYSTEM MAINTENANCE	\$12,910,000	100.0%	\$12,910,000	0.0%	\$0	0.0%	\$0	\$12,910,000
OPERATIONS & MAINTENANCE	\$57,000,000	38.0%	\$21,643,464	33.5%	\$19,067,507	28.6%	\$16,289,030	\$57,000,000
TECHNICAL SERVICES	\$11,000,000	30.0%	\$3,300,000	40.0%	\$4,400,000	30.0%	\$3,300,000	\$11,000,000
COGENERATION	\$800,000	0.0%	\$0	60.0%	\$480,000	40.0%	\$320,000	\$800,000
METRO ADMIN & GENERAL EXPENSES - 41508	\$19,000,000	41.9%	\$7,953,244	31.9%	\$6,067,868	26.2%	\$4,978,889	\$19,000,000
METRO ADMIN & GENERAL EXPENSES - 41509	\$16,000,000	41.9%	\$6,697,468	31.9%	\$5,109,783	26.2%	\$4,192,748	\$16,000,000
PURE WATER O & M	\$4,332,116	41.9%	\$1,813,388	31.9%	\$1,383,511	26.2%	\$1,135,217	\$4,332,116
TOTAL OPERATIONS AND MAINTENANCE	\$121,042,116	44.87%	\$54,317,564	30.16%	\$36,508,668	24.96%	\$30,215,883	\$121,042,116
<u>CAPITAL IMPROVEMENT PROGRAM:</u>								
PURE WATER CIP	\$19,645,387	55.8%	\$10,961,111	22.0%	\$4,321,548	22.2%	\$4,362,728	\$19,645,387
PAY-AS-YOU-GO METRO 41509	\$4,956,075	55.8%	\$2,765,234	22.0%	\$1,090,226	22.2%	\$1,100,615	\$4,956,075
DEBT SERVICE	\$57,243,616	55.8%	\$31,938,979	22.0%	\$12,592,322	22.2%	\$12,712,315	\$57,243,616
TOTAL CAPITAL IMPROVEMENT PROGRAM	\$81,845,078	55.8%	\$45,665,323	22.0%	\$18,004,096	22.2%	\$18,175,659	\$81,845,078
TOTAL O&M & CAPITAL IMPROVEMENT PROGRAM \$202,887,194		49.3%	\$99,982,888	26.9%	\$54,512,764	23.9%	\$48,391,542	\$202,887,194

Attachment 13

MetroTAC Work Plan

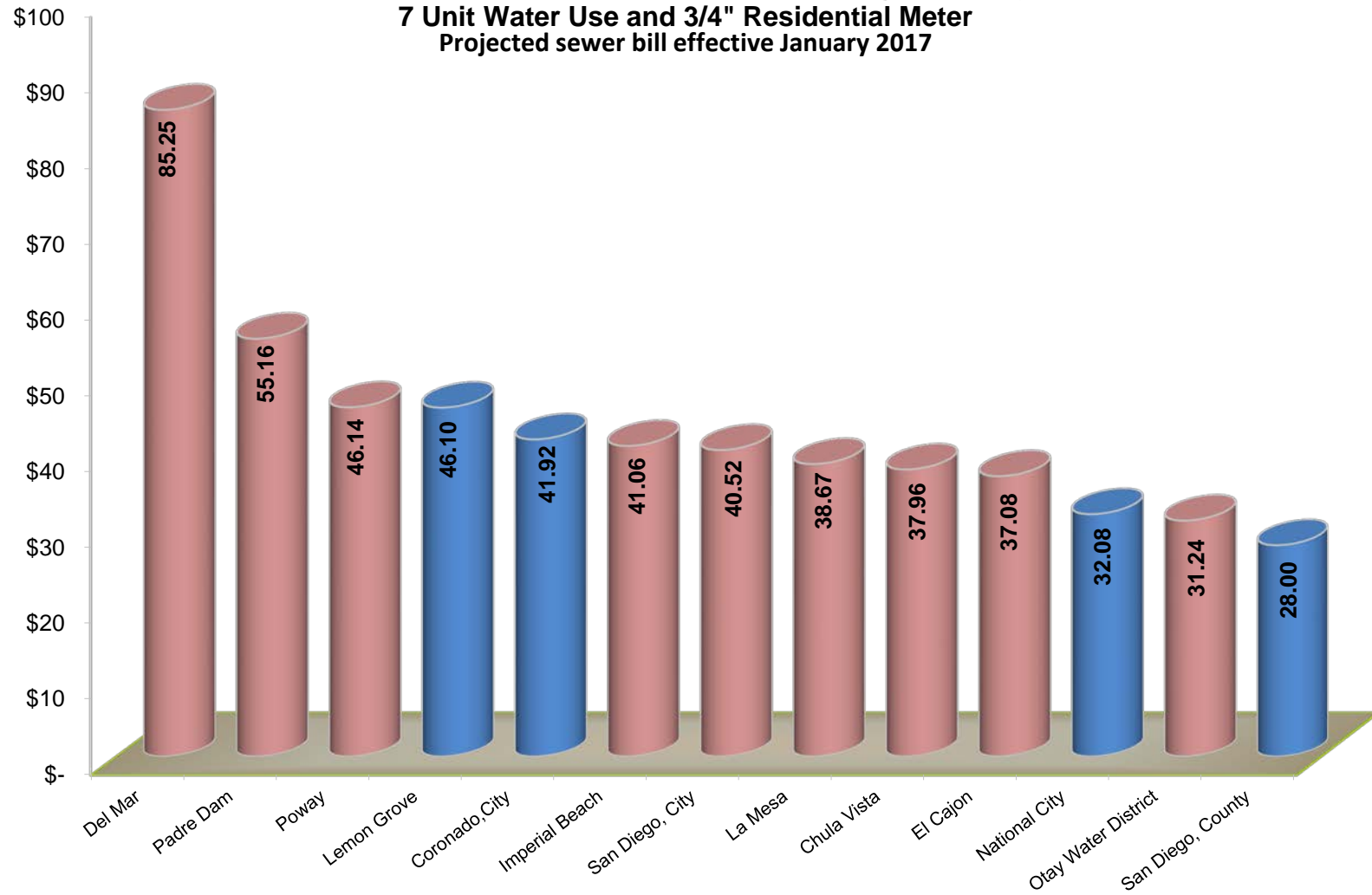
Active Items	Description	Member(s)
Pure Water Facilities Subcommittee	<i>This subcommittee was formed by Metro TAC and is a technical group of engineers and supporting financial staff to work with San Diego staff and consultants on cost allocations for proposed Pure Water facilities. This group meets at least monthly. Current projects include North City and MBC expansions. First meeting was 3/24/17.</i>	Yazmin Arellano Steve Beppler Al Lau Scott Tulloch Dexter Wilson Roberto Yano SD staff & consultants
Sample Rejection Protocol Working Group	7/16: The sample rejection protocol from the B&C 2013 report has been under discussion between PUD staff and Metro TAC. A working group was formed to deal with this highly technical issue and prepare draft recommendations on any changes to current sampling procedures. The existing protocol is to be used through FY17. If changes are approved to the protocol they will be implemented in FY18. 1/17: Work group continues to meet monthly.	Dennis Davies Dan Brogadir Al Lau Dexter Wilson SD staff
PLWTP Permit Ad Hoc Work Group	1/17: Greg Humora and Scott Tulloch continue to meet with stakeholders. . Milestones are included in each month Metro TAC and Commission agenda packet.	Greg Humora Scott Tulloch SD staff & consultants Enviro members
Flow Commitment Working Group	6/16: Upon the request of Metro Com Chair Jim Peasley Chairman Humora created a working group to review the Flow Commitment section of the Regional Agreement and make recommendations on the fiscal responsibilities of members who might withdraw their flow from the Metro System. The Work Group held their first meeting June 24, 2016. Yazmin Arellano chairs the work group. 1/17: Work group continues to meet monthly. <i>4/17: Group has prepared draft RFP to hire engineering consultant to update Pt. Loma capacities</i>	Yazmin Arellano Roberto Yano Eric Minicilli Al Lau SD staff Karyn Keese
Social Media Working Group	6/16: Upon the request of Metro Com Chair Jim Peasley Chairman Humora created a working group to research and provide input on the creation of policies and procedures for Metro JPA social media. Mike Obermiller will chair this work group. He sent out an email to all Metro TAC members requesting copies of their agency's policies. 9/16: A draft policy has been approved by Metro TAC and will be presented to the Commission in October by Alexander Heide. <i>1/17: Draft policy and consultants contracts to be reviewed by Finance Committee in April 2017.</i>	Mike Obermiller Alexander Heide
Secondary Equivalency	5/14: Definition of secondary equivalency for Point Loma agreed to be enviros 12/14: Cooperative agreement signed between San Diego and enviros to work together to pass legislation for secondary equivalency (until 8/1/19) San Diego indicated that passage of Federal legislation is not possible under the current political environment. San Diego is exploring options for State legislation 9/15: Letter received from EPA endorsing modified permit for Point Loma 6/16: Pursuit of Federal Legislation will be held off until after the November 2016 election. City of San Diego to consult with DC lobbyists on 2/4/17	Greg Humora Scott Tulloch
Pure Water Program Cost Allocation Ad Hoc Work Group	A working group was formed to discuss Pure Water program cost allocation policies. 9/16: Concepts to be refined by Metro TAC and San Diego staff for presentation to Commission 1/17. <i>4/17: This group is currently being supported on a technical level by the Pure Water Facilities Subcommittee.</i>	Greg Humora Scott Tulloch Roberto Yano Karyn Keese SD staff & consultants

Active Items	Description	Member(s)
Pure Water Program Cost Allocation Metro TAC Work Group	5/14: Draft facility plan and cost allocation table provided to Metro TAC working group 3/15: Draft cost allocation presentation provided to Metro TAC	Greg Humora Scott Tulloch Rick Hopkins Roberto Yano Al Lau Bob Kennedy Karyn Keese
Exhibit E Audit	6/16: FY 2013 audit accepted by Metro Commission; 9/16: FYE 2014 audit accepted by Metro Commission. FYE 2015 audit report to be issued by end of 2016 and then all audits will be caught up. 1/17: FYE 2015 to be issued in February 2017. FYE 2016 fieldwork is underway with anticipated draft 7/17. <i>3/17: FYE 2015 audit report issued. Acceptance pending resolution of PWP cost allocation for cost incurred in that fiscal year.</i>	Karyn Keese Karen Jassoy
Amend Regional Wastewater Disposal Agreement	The addition of Pure Water facilities and costs will likely require the amendment of the 1998 Regional Wastewater Disposal Agreement. The Padre Dam billing errors have led to a need to either amend the Agreement and/or develop administrative protocols to help resolve potential future billing errors. After Pure Water cost allocation had been agreed to this effort will begin.	Greg Humora Roberto Yano Dan Brogadir Paula de Sousa Mills Karyn Keese
Management of Non-Disposables in Wastewater	9/13: Eric Minicilli handed out a position paper prepared by the NEWEA. 6/15 Chairman Humora provided attached from SCAP. 2/16: Chairman Humora distributed Robbins Geller Rudman & Dowd memorandum.	Eric Minicilli
2015/16 Transportation Rate Update	5/14: Metro TAC approved 2014 transportation rate w/caveat that PUD staff hires a consultant to review/revise methodology for 2015.	Al Lau Dan Brogadir Karyn Keese
IRWMP	8/15 RAC minutes included in August Metro TAC agenda. Padre Dam received a \$6 million grant for their project. 9/16: June 2, 2016 and August 3, 2016 minutes presented to Metro TAC. 12/16: Roberto Yano and Yazmin Arellano appointed to IRWMP.	Roberto Yano Yazmin Arellano
"No Drugs Down the Drain"	The state has initiated a program to reduce pharmaceuticals entering the wastewater flows. There have been a number of pharmaceutical collection events within the region sponsored by law enforcement.	Greg Humora
Strength Based Billing Evaluation	San Diego will hire a consultant every three years to audit the Metro metered system to insure against billing errors.	Al Lau Dan Brogadir Karyn Keese
Grease Recycling	To reduce fats, oils, and grease (FOG) in the sewer systems, more and more restaurants are being required to collect and dispose of cooking grease. Companies exist that will collect the grease and turn it into energy.	Eric Minicilli
Point Loma Modified NPDES Permit	1/15: Permit was submitted. EPA has begun their review. 11/16 first possible date at the Regional Board for consideration. 12/16: First hearing of Permit Application held at San Diego Regional Board. <i>4/17: Regional Board hearing on accelerated PWP facilities timeline.</i>	Greg Humora Scott Tulloch Karyn Keese
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	Paula de Sousa Mills
Border Region	Impacts of sewer treatment and disposal along the international border should be monitored and reported to the Board. These issues would directly affect the South Bay plants on both sides of the border.	<i>New Board Members to be Appointed</i>

Sewer Rate Comparison in San Diego County

7 Unit Water Use and 3/4" Residential Meter

Projected sewer bill effective January 2017



Metro TAC Participating Agencies Selection Panel Rotation

Agency	Representative	Selection Panel	Date Assigned
Padre Dam	Neal Brown	IRWMP – Props 50 & 84 Funds	2006
El Cajon	Dennis Davies	Old Rose Canyon Trunk Sewer Relocation	9/12/2007
La Mesa	Greg Humora	As-Needed Piping and Mechanical	11/2007
National City	Joe Smith	MBC Additional Storage Silos	02/2008
Otay Water District	Rod Posada	As-Needed Biological Services 2009-2011	02/2008
Poway	Tom Howard	Feasibility Study for Bond Offerings	02/2008
County of San Diego	Dan Brogadir	Strategic Business Plan Updates	02/2008
Coronado	Scott Huth	Strategic Business Plan Updates	09/2008
Coronado	Scott Huth	As-needed Financial, HR, Training	09/2008
PBS&J	Karyn Keese	As-needed Financial, Alternate HR, Training	09/2008
Otay Water District	Rod Posada	Interviews for Bulkhead Project at the PLWTP	01/2009
Del Mar	David Scherer	Biosolids Project	2009
Padre Dam	Neal Brown	Regional Advisory Committee	09/2009
County of San Diego	Dan Brogadir	Large Dia. Pipeline Inspection/Assessment	10/2009
Chula Vista	Roberto Yano	Sewer Flow Monitoring Renewal Contract	12/2009
La Mesa	Greg Humora	Sewer Flow Monitoring Renewal Contract	12/2009
Poway	Tom Howard	Fire Alarm Panels Contract	12/2009
El Cajon	Dennis Davies	MBC Water System Improvements D/B	01/2010
Lemon Grove	Patrick Lund	RFP for Inventory Training	07/2010
National City	Joe Smith	Design/Build water replacement project	11/2010
Coronado	Scott Huth	Wastewater Plan update	01/2010
Otay Water District	Bob Kennedy	RFP Design of MBC Odor Control Upgrade/Wastewater Plan Update	02/2011
Del Mar	Eric Minicilli	Declined PS 2 Project	05/2011
Padre Dam	Al Lau	PS 2 Project	05/2011
County of San Diego	Dan Brogadir	RFP for As-Needed Biological Services Co.	05/2011
Chula Vista	Roberto Yano	North City Cogeneration Facility Expansion	07/2011
La Mesa	Greg Humora	confined space RFP selection panel	10/2011
Poway	Tom Howard	COSS's for both Water and WW	10/2011
El Cajon	Dennis Davies	Independent Accountant Financial Review & Analysis – All Funds	01/2012

Lemon Grove	Mike James	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
National City	Joe Smith	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
Coronado	Godby, Kim	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
Otay Water District	Bob Kennedy	MBC Dewatering Centrifuges Replacement (Accepted)/Strategic Planning Rep	01/2012
Del Mar	Eric Minicilli	New As Need Engineering Contract	02/2012
Padre Dam	Al Lau	PA Rep. for RFQ for As Needed Design Build Services (Passed)	05/2012
County of San Diego	Dan Brogadir	PA Rep. for RFQ for As Needed Design Build Services (Cancelled project)	05/2012
Chula Vista	Roberto Yano	As-Needed Condition Assessment Contract (Accepted)	06/2012
La Mesa	Greg Humora	New programmatic wastewater facilities condition (Awaiting Response)	11/2012
Poway	Tom Howard	Optimization Review Study	01/2013
El Cajon	Dennis Davies	PUD 2015 Annual Strategic Plan	1/15/14
Lemon Grove	Mike James	As-Needed Engineering Services (Passed)	7/25/14
National City	Kuna Muthusamy	As-Needed Engineering Services	7/25/14
Coronado	Ed Walton	Strategic Planning	01/2014
Otay Water District	Bob Kennedy	Strategic Planning (Volunteered, participated last year)	01/2014
Del Mar	Eric Minicilli	Pure Water Program Manager Services	9/1/14
Padre Dam	Al Lau	Pure Water Program Manager Services	9/1/14
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		

Lemon Grove	Mike James		
National City	Kuna Muthusamy		
Coronado	Ed Walton		
Otay Water District	Bob Kennedy		
Del Mar	Eric Minicilli		
Padre Dam	Al Lau		
County of San Diego	Dan Brogadir		
Chula Vista	Roberto Yano		
La Mesa	Greg Humora		
Poway	Mike Obermiller		
El Cajon	Dennis Davies		
Lemon Grove	Mike James		
National City	Kuna Muthusamy		
Coronado	Ed Walton		