



REVISED AGENDA

REGULAR Meeting of the Metro Commission and Metro Wastewater JPA

AGENDA

Thursday, August 1, 2013
12:00 p.m.

9192 Topaz Way (MOC II) Auditorium
San Diego, California

"The Metro JPA's mission is to create an equitable partnership with the San Diego City Council and Mayor on regional wastewater issues. Through stakeholder collaboration, open dialogue, and data analysis, the partnership seeks to ensure fair rates for participating agencies, concern for the environment, and regionally balanced decisions."

Note: Any member of the Public may address the Metro Commission/Metro Wastewater JPA on any Agenda Item. Please complete a Speaker Slip and submit it to the Administrative Assistant or Chairperson prior to the start of the meeting if possible, or in advance of the specific item being called. Comments are limited to three (3) minutes per individual.

Documentation
Included

1. ROLL CALL
2. PLEDGE OF ALLEGIANCE TO THE FLAG
3. PUBLIC COMMENT
Persons speaking during Public Comment may address the Metro Commission/ Metro Wastewater JPA on any subject matter within the jurisdiction of the Metro Commission and/or Metro Wastewater JPA that is not listed as an agenda item. Comments are limited to three (3) minutes. Please complete a Speaker Slip and submit it prior to the start of the meeting.
- X 4. **ACTION** – CONSIDERATION AND POSSIBLE ACTION TO APPROVE THE MINUTES OF THE REGULAR MEETING OF [June 6, 2013](#) and the [Special Meeting of June 20, 2013](#) (**Attachments**)
- X 5. **ACTION** – CONSIDERATION AND POSSIBLE ACTION TO APPROVE WATER DEMONSTRATION PROJECT FINAL REPORT (**Attachment**) (Marsi Steirer)
- X 6. **ACTION** – CONSIDERATION AND POSSIBLE ACTION ON JOINT RESOLUTION SUPPORTING DEVELOPMENT OF A LONG-RANGE REGIONAL WATER REUSE PLAN AND SECONDARY EQUIVALENCY FOR POINT LOMA WASTEWATER TREATMENT PLANT (**Attachment**) (Leah Browder/Scott Tulloch)

Documentation
Included

- X 7. **ACTION** – CONSIDERATION AND POSSIBLE ACTION TO APPROVE A BUGET FOR JPA WEBSITE DESIGN IN AN AMOUNT NOT TO EXCEED \$25, 000 (**Attachment**) (Karyn Keese)

- X 8. **ACTION** – CONSIDERATION AND POSSIBLE ACTION TO APPROVE OPERATION OPTIMIZATIONS CONSULTANT SERVICES AGREEMENT (**Attachment**) (Vien Hong)

- X 9. **ACTION** – CONSIDERATION AND POSSIBLE ACTION TO APPROVE PROGRAMMATIC WASTEWATER PIPELINES CONDITION ASSESSMENT AGREEMENT (**Attachment**) (Monika Smoczynski)

- X 10. COST OF SERVICE STUDY UPDATE (**Attachment**) (Lee Ann Jones-Santos)

- 11. USE OF FUNDS UPDATE (Lee Ann Jones-Santos)

- 12. RECYCLED WATER PRICING STUDY UPDATE (Lee-Ann Jones- Santos)

- X 13. METRO TAC UPDATE/REPORT (Al Lau)

- 14. IROC UPDATE (Gail Welch)

- 15. FINANCE COMMITTEE (Barbara Denny)

- 16. REPORT OF GENERAL COUNSEL (Paula deSousa)

- 17. PROPOSED AGENDA ITEMS FOR THE NEXT METRO COMMISSION/ METRO WASTEWATER JPA MEETING **September 5, 2013**

- 18. METRO COMMISSIONERS' AND JPA BOARD MEMBERS' COMMENTS

- 19. ADJOURNMENT OF METRO COMMISSION AND METRO WASTEWATER JPA

The Metro Commission and/or Metro Wastewater JPA may take action on any item listed in this Agenda whether or not it is listed "For Action."

Materials provided to the Metro Commission and/or Metro Wastewater JPA related to any open-session item on this agenda are available for public review by contacting L. Peoples at (619) 476-2557 during normal business hours.

***In compliance with the
AMERICANS WITH DISABILITIES ACT***

The Metro Commission/Metro Wastewater JPA requests individuals who require alternative agenda format or special accommodations to access, attend, and/or participate in the Metro Commission/Metro Wastewater JPA meetings, contact E. Patino at (858) 292.6321, at least forty-eight hours in advance of the meetings.

AGENDA ITEM 4

Attachment

(Metro JPA Draft Minutes for June 6, 2013 Regular Meeting and June 20, 2013 Special Meeting)



**Special Meeting of the Metro Commission
and Metro Wastewater JPA**

**9192 Topaz Way (MOC II) Auditorium
San Diego, California**

**June 6, 2013
DRAFT Minutes**

Chairwoman Cox called the meeting to order at 12:00 p.m. A quorum of the Metro Wastewater JPA and Metro Commission was declared, and the following representatives were present:

1. ROLL CALL

<u>Agencies</u>	<u>Representatives</u>		<u>Alternate</u>
City of Chula Vista	Cheryl Cox	X	Rick Hopkins
City of Coronado	Barbara Denny	X	Ed Walton
City of Del Mar	Sherryl Parks	X	Eric Minicilli
City of El Cajon	Bill Wells		Dennis Davies
City of Imperial Beach	Ed Spriggs	X	
City of La Mesa	Art Madrid	X	
Lemon Grove Sanitation District	Jerry Jones	X	
City of National City	Louis Natividad	X	Joe Smith
City of Poway	John Mullin	X	Leah Browder
City of San Diego	Jerry Sanders		Roger Bailey
County of San Diego	Dianne Jacob		Daniel Brogadir
Otay Water District	Jose Lopez		(No Representative)
Padre Dam MWD	Jim Peasley	X	Augie Scalzetti
Metro TAC Chair	Greg Humora	X	
IROC Chair	Gayle Welch		

Others present: Metro JPA General Counsel Brooke Miller; Metro JPA Secretary Lori Anne Peoples; Karyn Keese & Scott Tulloch – Atkins Global; Robert Yano – City of Chula Vista; Bob Kennedy – Otay Water District; Al Lau – Padre Dam Municipal Water District; Lee Ann Jones-Santos, Cheryl Lester, Peggy Merino, Edgar Patino, Ann Sasaki, Marsi Steirer & Tung Phung - City of San Diego Public Utilities; Tom Zeleny – City Attorney City of San Diego

2. PLEDGE OF ALLEGIANCE TO THE FLAG

Vice-Chair Jones led the Pledge.

3. PUBLIC COMMENT

None.

4. RECOGNITION OF FORMER COMMISSIONER AL OVROM AND CHAIRMAN ERNIE EWIN

Chairwoman Cox noted that Former Commissioner Al Ovrom was unable to be present. She then recognized former Chairman Ernie Ewin in the audience and requested he come forward to the podium to accept a plaque of admiration being presented by Vice-Chairman Jones on behalf of his fellow Commissioners for his leadership of the Metro JPA through the overviews, the plans for how to conduct ourselves and the times they wanted to improve relationships with of partnership with the City of San Diego. Chair Ewin thanked everyone for their support and hard work on behalf of their constituents.

Chairwoman Cox then requested Commissioner Denny present the service recognition plaque on behalf of the Commission to her predecessor, Al Ovrom if he is not present by the end of the meeting. She also had Secretary Peoples provide the plaque to Commissioner Parks to present to her predecessor, Don Mosier who was not able to attend today's meeting.

5. ACTION - CONSIDERATION AND POSSIBLE ACTION TO APPROVE THE MINUTES OF THE REGULAR MEETING OF MARCH 7, 2013 AND THE SPECIAL MEETING OF MAY 2, 2013

ACTION: Upon motion by Vice-Chair Jones, seconded by Commissioner Madrid, the March 7 and May 2, 2013 Minutes were approved unanimously.

URGENCY ITEM - Pt. Loma Digesters C2/N1/N2 Cleaning Project

Chair Cox then stated that we had an item that needed to be added to the agenda that requires immediate action. The need to take immediate action was brought to the JPA's attention after the agenda was posted. This item was presented to MetroTAC and approved to move forward to the JPA. However, in order to discuss and take action on this item, Chair Cox requested a 2/3 vote or unanimous if less than 2/3. The item is at the Commissioners dais and is titled "**Pt. Loma Digesters C2/N1/N2 Cleaning Project**."

ACTION: Upon motion by Chair Cox, seconded by Vice-Chair Jones, the item was brought forward to the agenda and approved unanimously.

Senior Civil Engineer for Public Utilities Tung Phung presented the staff report.

ACTION: Upon motion by Vice-Chair Jones, seconded by Commissioner Peasley, the item was unanimously approved to move forward to the San Diego City Council on July 9, 2013.

6. ACTION - CONSIDERATION AND POSSIBLE ACTION TO APPROVE THE METRO FYE 2014 O&M AND CIP BUDGET (Lee Ann Jones-Santos)

Ms. Jones-Santos, Deputy Director for Finance & IT, City of San Diego Public Utilities made a brief presentation. She stated that the budget had been presented in May to the MetroTAC and Finance Committee. She then noted that the budget for the Metro component only totals \$204.5 million which is a reduction of approximately \$11.8 million less than the prior year.

ACTION: Upon motion by Vice-Chair Jones, seconded by Commissioner Mullin, the Metro FYE 2014 O&M and CIP Budget were unanimously approved.

7. ACTION - CONSIDERATION AND POSSIBLE ACTION TO APPROVE THE 2013-2014 METRO WASTEWATER JPA BUDGET (Karyn Keese)

Ms. Keese of Atkins Global provided a brief verbal report on behalf of Metro JPA Treasurer Jassoy who was unable to be present. She noted that the budget had been reviewed and approved by both the MetroTAC and Finance Committee. It is essentially the same except for a couple of items. The members have not been using as much Per Diem as anticipated so that item has been decreased by \$2,000; the Treasurer support by Padre Dam is being increased by \$5,000 due to the increase in audits being performed this year; additionally under audits, it is recommended by our Legal Counsel to have a full audit of the Metro JPA finances due to the spending of public funds for which an amount of \$12,000 has been included based on a quote received from our Treasurers auditor. The billings for each member agency are included on the second page.

ACTION: Upon motion by Vice-Chair Jones, seconded by Commissioner Peasley, the 2013-2014 Metro Wastewater JPA Budget was unanimously approved.

8. ACTION - CONSIDERATION AND POSSIBLE ACTION TO APPROVE ATKINS 2013-2014 CONTRACT (Karyn Keese)

Ms. Keese of Atkins Global provided a brief verbal report noting that this contract had been seen twice by MetroTAC and once by the Finance Committee and approved by both. The budget is essentially flat; there is a summary on the third page just after the staff report. The only addition is that Scott Tulloch is joining Ms. Keese and will be doing the engineering work in support of the

waiver and secondary equivalency. Since no money had been spent on engineering last year, funds have been re-budgeted this year for Mr. Tulloch.

ACTION: Upon motion by Chair Cox, seconded by Vice-Chair Jones the Atkins 2013-2014 Contract was unanimously approved.

9. ACTION – CONSIDERATION AND POSSIBLE ACTION TO APPROVE TREASURER 2013-2014 AMENDMENT TO CONTRACT (Karyn Keese)

Ms. Keese of Atkins Global presented a brief verbal staff report noting that this item was the actual contract with Padre Dam for provision of the Treasurers service and does include the additional monies approved when the budget was approved and had been reviewed and approved by the MetroTAC and Finance Committee.

ACTION: Upon motion by Chair Cox, seconded by Commissioner Peasley the Treasurers 2013-2014 Amendment to Contract was unanimously approved.

10. ACTION – CONSIDERATION AND POSSIBLE ACTION TO APPROVE WEBMASTER 2013-2014 AMENDMENT TO CONTRACT (Karyn Keese)

Ms. Keese of Atkins Global presented a brief verbal staff report noting that this item had been reviewed and approved by the MetroTAC and Finance Committee and MetroTAC is taking as a work item this year a review of the website and possibly revise it to make it more inclusive and add additional information. Our current webmaster is not capable of doing any redesign so that will be brought back in the future. This maintains what we have which includes the uploading of the agendas.

ACTION: Upon motion by Chair Cox, seconded by Vice Chairman Jones the Webmaster 2013-2014 Amendment to Contract was unanimously approved.

11. ACTION – CONSIDERATION AND POSSIBLE ACTION TO APPROVE CITY OF SAN DIEGO 2013-2014 AMENDMENT TO CONTRACT (Karyn Keese)

Ms. Keese of Atkins Global presented a brief verbal staff report noting that this item is the contract with the City of San Diego for the JPA which they pay for particular services of the Metro Commission, it includes an increase of up to \$65,000, not per year which will take us through April of next year at which time a new contract will be negotiated with the City of San Diego and had been reviewed and approved by the MetroTAC and Finance Committee.

ACTION: Upon motion by Chair Cox, seconded by Commissioner Madrid the City of San Diego 2013-2014 Amendment to Contract was unanimously approved.

12. ACTION – CONSIDERATION AND POSSIBLE ACTION TO APPROVE LORI ANNE PEOPLES 2013-2014 AMENDMENT TO CONTRACT (Karyn Keese)

Ms. Keese of Atkins Global presented a brief verbal staff report noting that this item had been reviewed and approved by the MetroTAC and Finance Committee.

ACTION: Upon motion by Chair Cox, seconded by Commissioner Madrid the Lori Anne Peoples 2013-2014 Amendment to Contract was unanimously approved.

13. INFORMATION – CELEBRATING 50 YEARS SAN DIEGO METROPOLITAN SEWERAGE SYSTEM (Cheryl Lester)

Ms. Lester provided a hand-out to the Commissioners on the 50th Anniversary Celebration and provided a brief overview of how the Metropolitan Wastewater Sewer System and Point Loma Treatment Plant came into being. She stated that the Anniversary Celebration will educate the public on where they have been and where they are today including being an energy producer, water reclamation and ocean monitoring and where they are going. The actual even will be held at the Cabrillo National Monument tentatively set for September 12th early evening but are in early planning stages. Ms. Lester then asked if there was someone interested in participating on behalf of the Metro JPA. Commissioner Parks volunteered to represent the JPA on the planning committee.

14. INFORMATION – STATUS REGARDING POINT LOMA WASTEWATER TREATMENT PLANT WAIVER BY SCOTT TULLOCH

Scott Tulloch of Atkins Global provided handouts and a brief PowerPoint presentation which he had previously made at the Commissions tour of the Point Loma Wastewater Treatment Plant.

15. METRO TAC UPDATE

MetroTAC Chair Humora stated that all items reviewed previously by the MetroTAC had been presented on this agenda and the MetroTAC Work Plan was attached to the agenda for their viewing pleasure inclusive of items being worked on and updates.

16. IROC UPDATE

IROC Chair Gail Welch provided the following updates:

- 1) IROC's current main areas of focus are:
 - a) Review of PUD's Cost of Service Study which is currently underway. Special meetings will be held to review revenue and expenditure assumptions, as well as various scenarios of infrastructure improvement, and how they would impact rates. The next special meeting of IROC to review COSS is Monday, June 24th from 8:30 a.m. to 11:00 a.m., to discuss rate design budget based billing and the recycled water pricing study.
 - b) Review of Capital Improvement Projects – looking closely at both Schedule and Expenditures. Several subcommittees are reviewing the details.
 - c) Recommend 2 performance audits to the Office of the City Auditor. "Review of the Customer Service Division", and "Overhead Rates and Interdepartmental Charges", The subcommittees will be meeting with Matthew Helm, OCA Audit Manager in their upcoming meetings on June 10th and June 17th. Ms. Welch invited anyone interested to attend.
 - d) Presented IROC's FY14 Work Plan to the NR&C Committee on May 15th, 2013 per the Muni-Code requirements. KIROC adopted the plan in March and took it to NR&C for feedback. NR&C made various recommendations for inclusion in the work plan and they are discussing if they will amend the plan.
 - e) IROC's next full member meeting is Monday, June 17th at 9:30 a.m. They meet on the third Monday of the month. Featured presentation s will be Maureen Stapleton from SDCWA and Gary Breaux, CFO of the Metropolitan Water District and they expect some robust discussion on cost structure, cost drivers, rate impacts, water supply planning, and CIP Program highlights among others.

17. FINANCE COMMITTEE

Finance Committee Chair Denny stated the Committee met on March 7th and the items discussed were reported on in this agenda.

18. REPORT OF GENERAL COUNSEL

No report.

19. PROPOSED AGENDA ITEMS FOR THE NEXT METRO COMMISSION/METRO WASTEWATER JPA MEETING JULY 4, 2013

Chair Cox requested and received consensus to cancel the July 4, 2013 Regular Meeting noting that a Special Meeting would be called if anything urgent came up that could not wait until the next Regular Meeting on August 1, 2013.

20. METRO COMMISSIONERS' AND JPA BOARD MEMBERS' COMMENTS

Commissioner Spriggs requested the preparation and distribution to the Commissioners of talking points/handout notes to start paving the way with their colleagues on the Pt. Loma Waiver.

21. ADJOURNMENT

At 12:59 p.m., there being no further business, Chairwoman Cox declared the meeting adjourned.

Recording Secretary



Special Meeting of the Metro Wastewater JPA

**Chula Vista Police Department Community Room
315 Fourth Avenue
Chula Vista, California**

**June 20, 2013
DRAFT Minutes**

Chairwoman Cox called the meeting to order at 12:05 p.m. A quorum of the Metro Wastewater JPA [was declared, and the following representatives were present:

1. ROLL CALL

<u>Agencies</u>	<u>Representatives</u>		<u>Alternate</u>
City of Chula Vista	Cheryl Cox	X	Rick Hopkins
City of Coronado	Barbara Denny	X	Ed Walton
City of Del Mar	Sherryl Parks	X	Eric Minicilli
City of El Cajon	Bill Wells		Dennis Davies
City of Imperial Beach	Ed Spriggs	X	
City of La Mesa	Art Madrid	X	
Lemon Grove Sanitation District	Jerry Jones	X	
City of National City	Louis Natividad	X	Joe Smith
City of Poway	John Mullin	X	Leah Browder
County of San Diego	Dianne Jacob		Jeff Bosvay
Otay Water District	Jose Lopez		David Gonzalez
Padre Dam MWD	Jim Peasley	X	Augie Scalzetti
Metro TAC Chair	Greg Humora	X	
IROC Chair	Gayle Welch		

Others present: Metro JPA General Counsel Brooke Miller for first half of meeting and Paula de Sousa for second half; Metro JPA Secretary Lori Anne Peoples; Karyn Keese & Scott Tulloch – Atkins Global; Ian Monahan & Bill Vance – City of Chula Vista; Bob Kennedy, Rod Posada, Mark Watton – Otay Water District; Allen Carlisle & Al Lau – Padre Dam Municipal Water District; Jim Lewinger – Consultant for City of Poway; Kristan Crane – City of Poway; Jeff Bosvay – County of San Diego; Jim Smyth – Sweetwater Authority [Was Jim really at the meeting I don't remember seeing him?]

2. PLEDGE OF ALLEGIANCE TO THE FLAG

Commissioner Natividad led the Pledge.

3. PUBLIC COMMENT

None.

4. INFORMATION - OVERVIEW BY SCOTT TULLOCH OF POINT LOMA WASTEWATER TREATMENT PLANT WAIVER

Scott Tulloch from Atkins Global provided a brief verbal and PowerPoint presentation on the Point Loma Wastewater Treatment Plant Waiver process aka San Diego Wastewater System/Modified Permit.

MetroTAC Chairman Greg Humora provided those present with a handout titled "Why we are here: Define the problem, consider strategies, and determine the level of commitment to a solution".

5. INFORMATION – OVERVIEW BY LEAH BROWDER OF WATER USE

Commissioner Mullin introduced Leah Browder, City of Poway Public Works Director who provided a brief overview of the Regional Water Reuse Plan as a Strategy for Permanent Acceptance of Point Loma Wastewater Treatment Plant at Advanced Primary.

Alternate Commissioner for Chula Vista, Rick Hopkins presented a concept for secondary.

6. ACTION – REVIEW AND DISCUSSION OF STRATEGIC FOCUS AREAS

- A. Water reuse planning
- B. Waiver renewal
- C. Other

General discussion ensued among those present.

7. ACTION – STATUS OF REGIONAL WATER REUSE PLAN INCLUDING CONSIDERATION OF INDIRECT POTABLE REUSE (IPR) AS RELATED TO SECONDARY TREATMENT AT POINT LOMA

ACTION: Chairwoman Cox stated she would like to appoint ad hoc steering and technical committees to review the strategy of offloading Point Loma and looking into IPR and inquired of those present as to whether they could support that this was worth talking about so that they don't have to rely on permitting every 5 years. All present were in concurrence including: Chula Vista, Coronado, Del Mar, Imperial Beach, La Mesa, Lemon Grove, National City, Otay Water District, Padre Municipal Water District, Poway and the County of San Diego.

Upon Motion by Chairwoman Cox and seconded by Commissioner Madrid, an Ad Hoc Steering Committee of: Cox, Denny, Mullins, Peasley, Spriggs;

And an Ad Hoc Technical Committee of: Browder, Hopkins, Humora, Smyth, Tulloch, Watton, was appointed unanimously.

8. ADJOURNMENT

At 2:43 p.m., there being no further business, Chairwoman Cox declared the meeting adjourned.

Recording Secretary

AGENDA ITEM 5

Attachment

(Water Demonstration Project
Final Report)



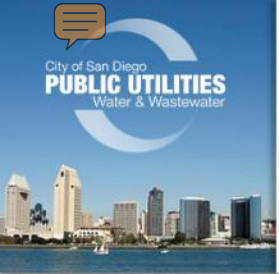
THE CITY OF SAN DIEGO

AUGUST 1, 2013
METRO COMMISSION MEETING

WATER PURIFICATION DEMONSTRATION PROJECT RESULTS

MARSI A. STEIRER
DEPUTY DIRECTOR





WATER PURIFICATION DEMONSTRATION PROJECT

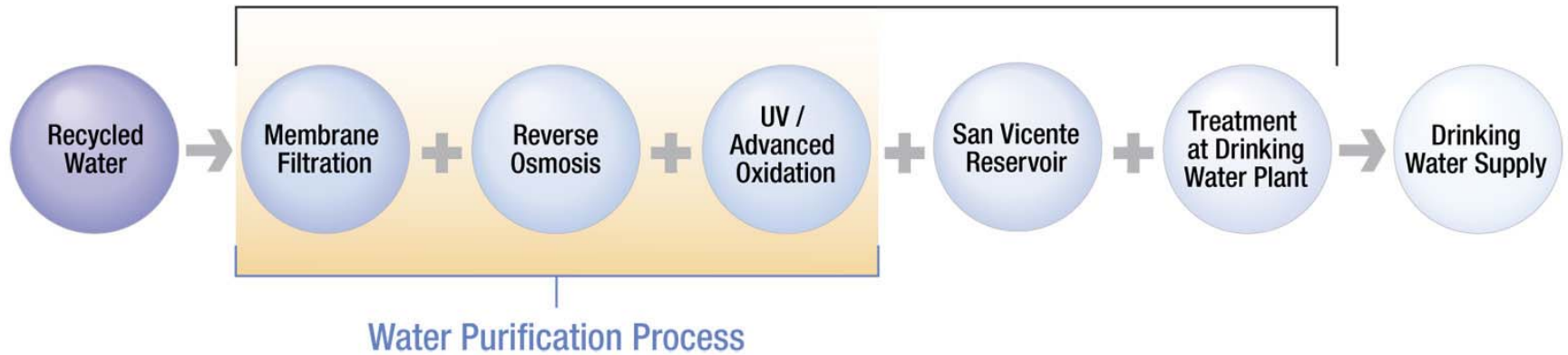
COMPONENTS

- Advanced Water Purification (AWP) Facility
- Independent Advisory Panel (IAP)
- San Vicente Reservoir Study
- Regulatory requirements
- Energy and cost analysis
- Education and outreach program



WATER PURIFICATION PROCESS

Multi-Barrier Water Purification Steps



Microfiltration & Ultrafiltration

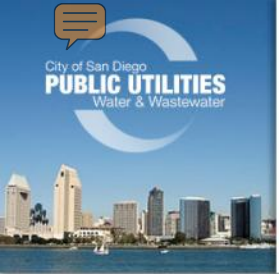


Reverse Osmosis



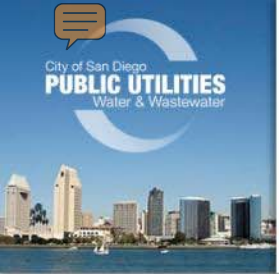
Ultraviolet Light / Hydrogen Peroxide





AWP FACILITY TESTING & MONITORING PLAN

- Testing period August 1, 2011 to July 31, 2012
- Measured for 342 constituents and parameters in recycled water, purified water, and imported water
- Conducted 9,000 individual water quality laboratory tests
- Implemented continuous and daily monitoring before and after each treatment step to verify integrity of each treatment process



AWP FACILITY TESTING & MONITORING RESULTS

- Purified water met all federal and state drinking water standards
- Overall water quality was exceptional, comparable to distilled water
- Lab tests plus continuous monitoring ensured only high quality water was produced
- Continuous and daily monitoring verified the integrity of the treatment process and equipment



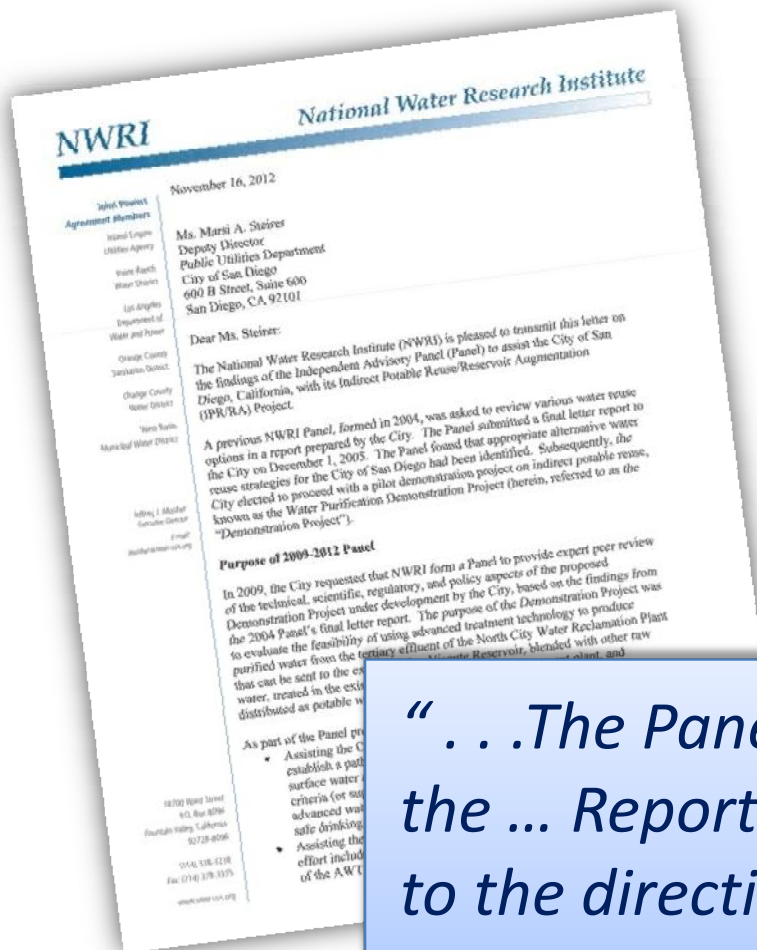
INDEPENDENT ADVISORY PANEL

- Convened to provide expert peer review of the technical, scientific, and regulatory aspects of the Demonstration Project
- Requested by California Department of Public Health (CDPH)
- Provided feedback regarding
 - San Vicente Reservoir
 - AWP Facility
 - Proposed regulatory framework



INDEPENDENT ADVISORY PANEL CONCLUSIONS

- Ten IAP meetings over three years
- IAP issued summary “letter of findings” November 16, 2012
- Unanimously concluded that the San Vicente Reservoir augmentation project would be a landmark development for indirect potable reuse and would contribute to San Diego’s water portfolio

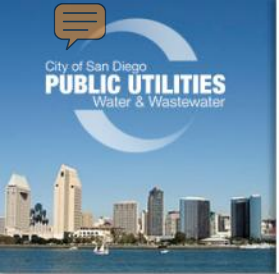


“...The Panel believes that the ... Report ... (is) responsive to the directives set forth by the City Council.”

SAN VICENTE RESERVOIR STUDY

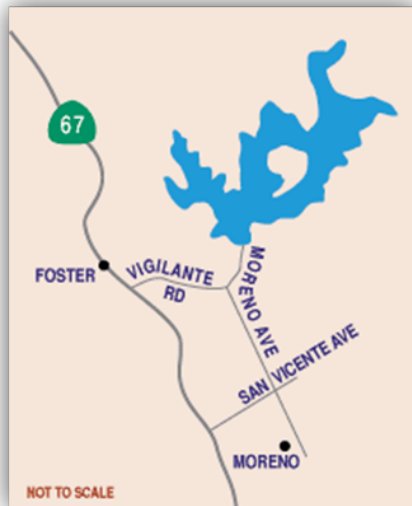
- Determine water quality effects of purified water in the reservoir
- Establish the retention time and dilution of purified water in the reservoir
- Secure regulatory approval from CDPH and San Diego Regional Water Quality Control Board





SAN VICENTE RESERVOIR STUDY RESULTS

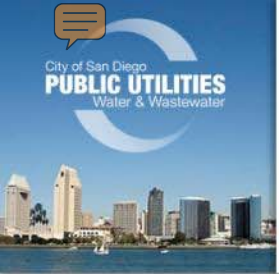
- Reservoir provides an environmental barrier that satisfies anticipated regulatory requirements
- Purified water will be diluted at least 200:1 under all anticipated reservoir operations
- Water quality in San Vicente will not be affected by adding purified water



REGULATORY FRAMEWORK

- Regulatory agencies, CDPH, Regional Water Board, and County Dept of Environmental Health, attended IAP meetings
- Regulators commented on:
 - AWP Facility equipment
 - Testing & Monitoring Plan
 - San Vicente Reservoir Study





REGULATORY FRAMEWORK RESULTS

- California Department of Public Health (CDPH) concept approval letter 9/7/2012

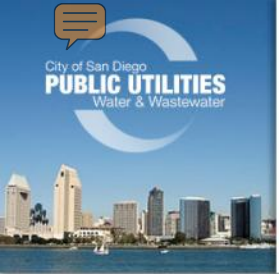


“Based on CDPH’s review of the City’s ... submittal ... CDPH approves the San Vicente Reservoir Augmentation Concept.”

- City received a letter of concurrence from the Regional Water Board on 2/12/2013



“The . . . Water Board, with concurrence from USEPA, strongly supports the efforts of the City to develop the San Vicente Reservoir Augmentation Project...”



ENERGY & COST ANALYSIS

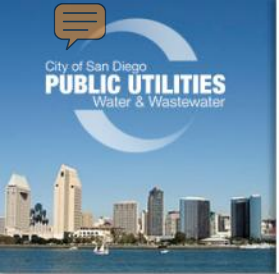
Energy:

- Energy consumption and greenhouse gas emissions of purified water delivered to San Vicente comparable to that of imported water

Cost:

- \$2,000 per acre-foot to produce and convey 15 mgd of purified water to San Vicente Reservoir





PUBLIC OUTREACH & EDUCATION PROGRAM

Program Statistics to date:

- Speakers Bureau presentations/attendees 159/4,138
- Community events/attendees 58/7,500
- Facility tours/visitors 271/3,612





PUBLIC OUTREACH & EDUCATION

The San Diego Voice & Viewpoint

Speeding Towards Water Purification in San Diego

By writer(s)
Unregistered | No Comments



SAN DIEGO – Earlier this year, the City of San Diego concluded that recycled water could be purified and safely used as a new source of water for San Diego. In the spirit of Comic-Con, the City of San Diego is spreading the word about the super technology that produces purified water. Trolley advertisements around the City currently highlight not only the technology, but also how everyone – including superheroes – needs water.

Water is essential to keep San Diego thriving. Yet San Diego has very little local rainfall and must rely on importing approximately 85 percent of its water from Northern California and the Colorado River. With the risk of earthquakes, droughts, continued pumping restrictions and rising costs of imported water impacting the reliability of this imported supply, the need for a local water source has become more urgent. As thousands of comic book



San Diego City Council Approves Water Purification

Water Reliability Coalition says new safe, reliable drinking water could supply up to 40 percent of City of San Diego's demand

The New York Times

As 'Yuck Factor' Subsides, Treated Wastewater Flows From Taps

By FELICITY BARNBERG
SAN DIEGO — Almost invisible in the southern hills, the plant is weeks a fortnight of renovation. It costs \$22 million, uses long-established technology and produces a sufficient volume of water. But the plant's very existence is a triumph over one of the most persistent problems facing the city.

KPBS

Final Report Says Recycling Water Is Not So Expensive

Wednesday, March 20, 2013
By Tom Fudge

SAN DIEGO — The San Diego Public Utilities Department today presents its final report on water recycling and estimates it would cost no more to recycle water than to import it.



Final Report Says Recycling Water Is Not So Expensive

Aired 3/20/13

The San Diego water department today presents its final report on water recycling and estimates it would cost no more to recycle water than to import it.



The report will be presented the San Diego City Council's Natural Resources and Culture Committee.

Turning wastewater into drinking water could provide a large, reliable source of water for San Diego. But water recycling has been politically controversial because some people think reusing wastewater is distasteful.

It's also been seen as expensive: about twice the cost of importing water from outside the region.

But the final report on San Diego's Water Purification Demonstration Project now claims the future cost of recycled and imported water would be about the same, around \$1,000 per acre foot.

The report indicates recycling water does save some money by reducing the need for imported water and by cutting the volume of water the city must handle



COVER STORY

From toilets to tap

As water becomes more precious, more drinking water will come from treated sewage. Here's how it works.



LOCAL NEWS

San Diego studies making drinking water from waste water

Tide turns for water purification plan



By Deborah Sullivan Brennan 6 A.M. APRIL 22, 2013



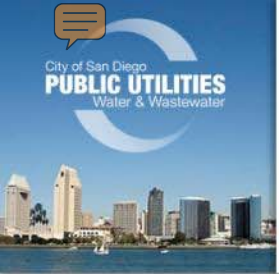
The New York Times

Sunday Review | The Opinion Pages

'Taking the Waste Out of Wastewater'

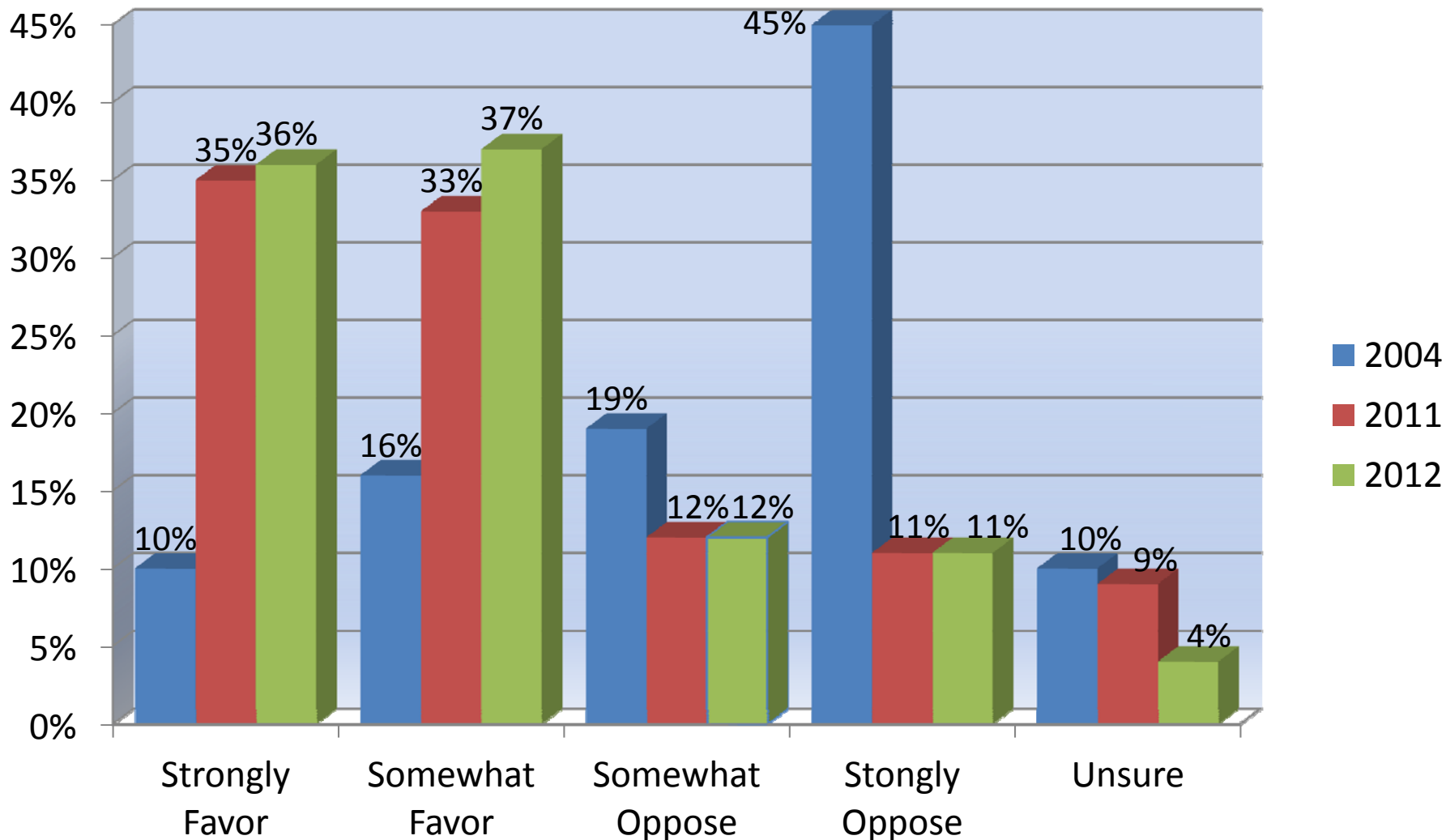


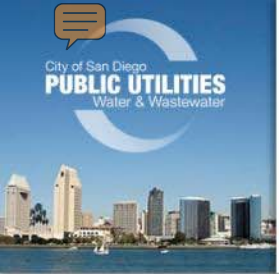
Purification system that makes toilet water clean enough to drink is closer to coming to San Diego



PUBLIC OUTREACH & EDUCATION PROGRAM RESEARCH RESULTS

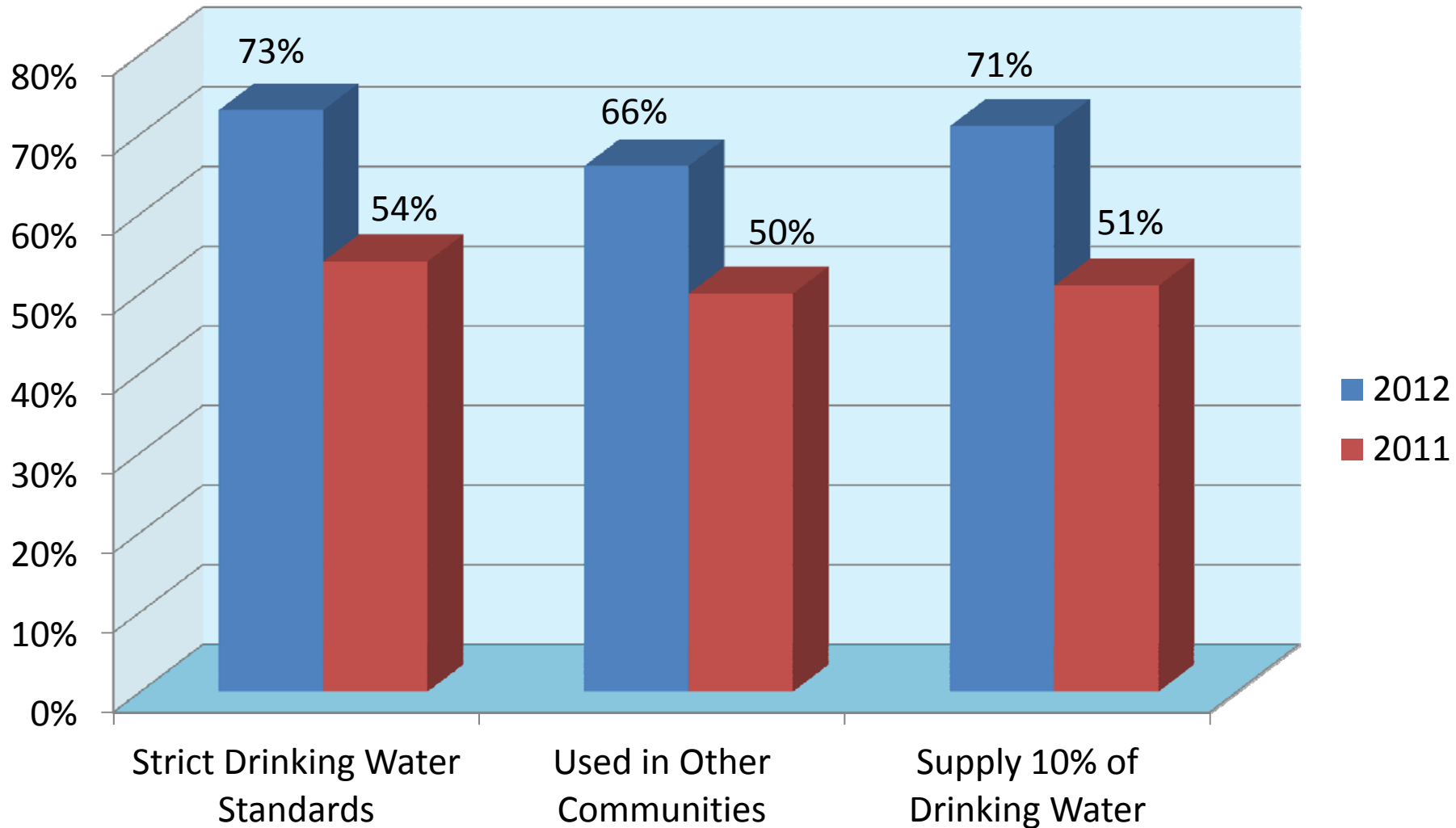
USE ADVANCED TREATED RECYCLED WATER AS AN ADDITION TO DRINKING WATER SUPPLY





PUBLIC OUTREACH & EDUCATION PROGRAM RESEARCH RESULTS

ACCEPTING OF RECYCLED WATER TO SUPPLEMENT DRINKING WATER IF RESPONDENT LEARNED CERTAIN FACTS



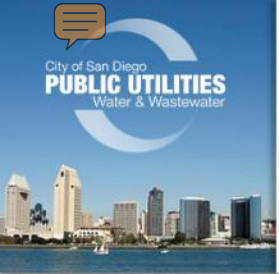


WRC

WATER RELIABILITY COALITION



- BIOCOM
- Building Industry Association of San Diego
- Building Owners and Managers Association, San Diego Chapter
- Citizens Coordinate for Century 3
- Coastal Environmental Rights Foundation
- Empower San Diego
- Endangered Habitats League
- Environmental Health Coalition
- Equinox Center
- Friends of Infrastructure
- Industrial Environmental Association
- National Association of Industrial and Office Properties
- San Diego and Imperial Counties Labor Council
- San Diego Audubon Society
- San Diego Regional Economic Development Corporation
- San Diego Coastkeeper
- San Diego County Apartment Association
- San Diego County Taxpayers Association
- San Diego Business Leadership Alliance
- San Diego Regional Chamber of Commerce
- San Diego River Park Foundation
- Surfrider Foundation, San Diego Chapter
- Sustainability Alliance of Southern California
- Utility Consumers' Action Network



SUMMARY

ADVANCED WATER PURIFICATION FACILITY

Operated 12 months; produced water that met all state and federal standards

SAN VICENTE RESERVOIR STUDY

Satisfied all anticipated regulatory requirements

REGULATORY FRAMEWORK

Received conceptual approval for a full-scale project from CDPH & Regional Water Board

ENERGY & COST ANALYSIS

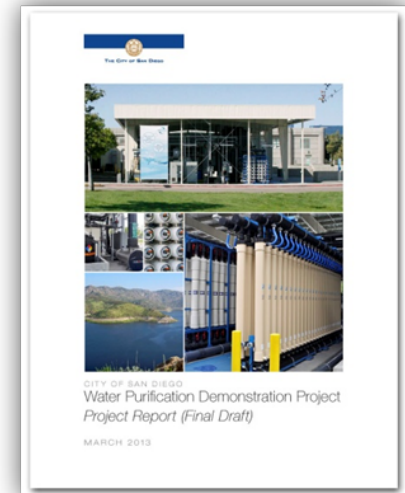
Determined energy use is comparable to imported water and costs \$2,000 per AF

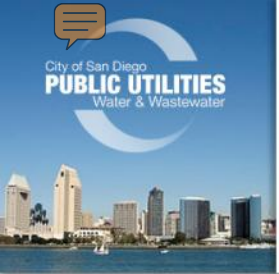
EDUCATION & OUTREACH

Increased understanding and approval of water purification

PROJECT REPORT

Adopted by City Council in April 2013



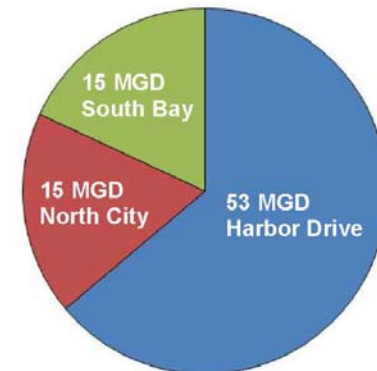


ROAD MAP TO IMPLEMENTATION

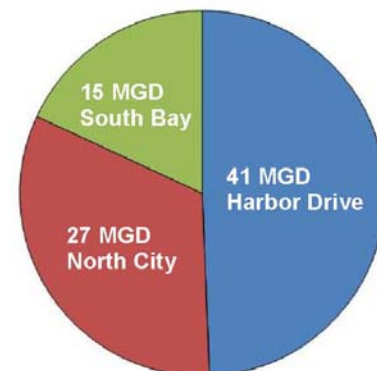
1. Determine a preferred implementation plan and schedule that considers potable reuse options for maximizing local water supply and reducing flows to the Point Loma Wastewater Treatment Plant.
2. Continue outreach efforts
3. Develop a strategy for allocating potable reuse costs among local water and wastewater funding sources
4. Develop a financing plan
5. Monitor the development of direct potable reuse regulations
6. Join the Direct Potable Reuse Initiative led by the WaterReuse Research Foundation
7. Coordinate potable reuse implementation strategy with Point Loma 2015 Permit Renewal Application
8. Continue AWPf operations



POTABLE REUSE FACILITY ALTERNATIVES



2035 Potable Reuse Potential



2035 Potable Reuse Potential



THE CITY OF SAN DIEGO

CONTACT INFO

Marsi Steirer
msteirer@sandiego.gov
619.533.4112
Purewatersd.org



Water Purification Demonstration Project



@PureWaterSD



purewatersd

AGENDA ITEM 6

Attachment

(Jt. Reso Supt. Long-Range
Regional Water Reuse Plan &
Secondary equivalency for
PLWTP)

Regional Water Reuse Plan

and

Secondary Equivalency for a
Smaller Point Loma Wastewater Treatment Plant

July 2013

Metro Wastewater Joint Powers Authority

- Twelve Member Agencies
- 35% of Flow & Cost of SD Metro WW System

County of San Diego
City of Chula Vista
City of Coronado
City of Del Mar
City of El Cajon
City of Imperial Beach

City of La Mesa
City of National City
City of Poway
Lemon Grove Sanitation District
Otay Water District
Padre Dam Municipal Water District

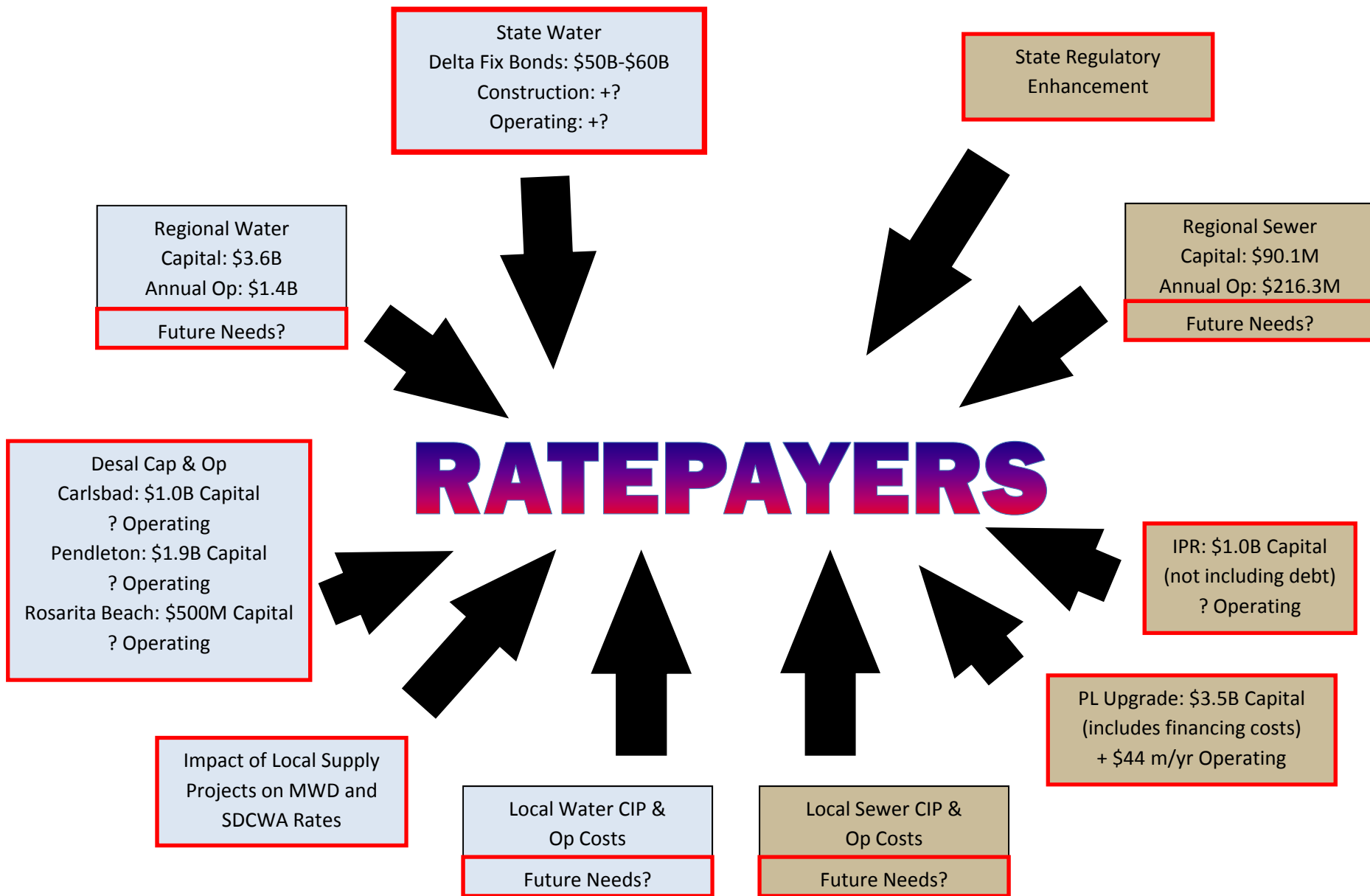
Challenges

- Create a New, Local, Diversified Water Supply
- Avoid Upgrade of Point Loma Wastewater Treatment Plant (PLWTP) to Secondary Saving Billions of Dollars

~~\$3.5 Billion~~

Solution

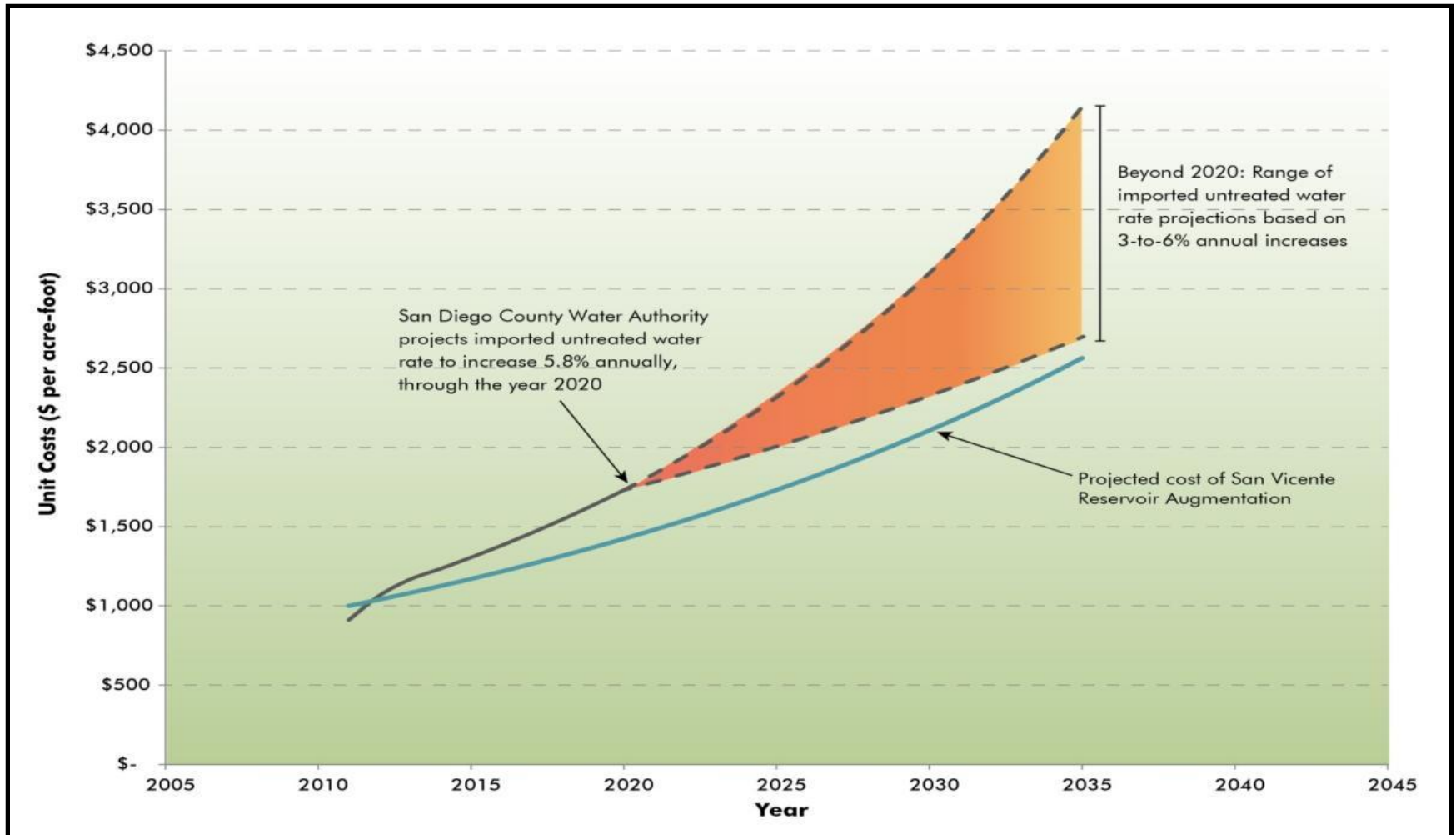
- Divert Substantial Wastewater Flows from PLWTP through Implementation of a Regional Water Reuse Program Focused on Potable Reuse
- Permit SMALLER Secondary Equivalent PLWTP that Reduces Wastewater Flows to the Ocean



Areas not currently included in rates

Cost estimates are currently wide-ranging
and subject to change

Comparing the Cost of Water



Projected cost of purified water (solid line) of a full-scale reservoir augmentation project at San Vicente Reservoir compared to actual and projected costs of untreated imported water (dashed lines).

Regional Water Demand Projections

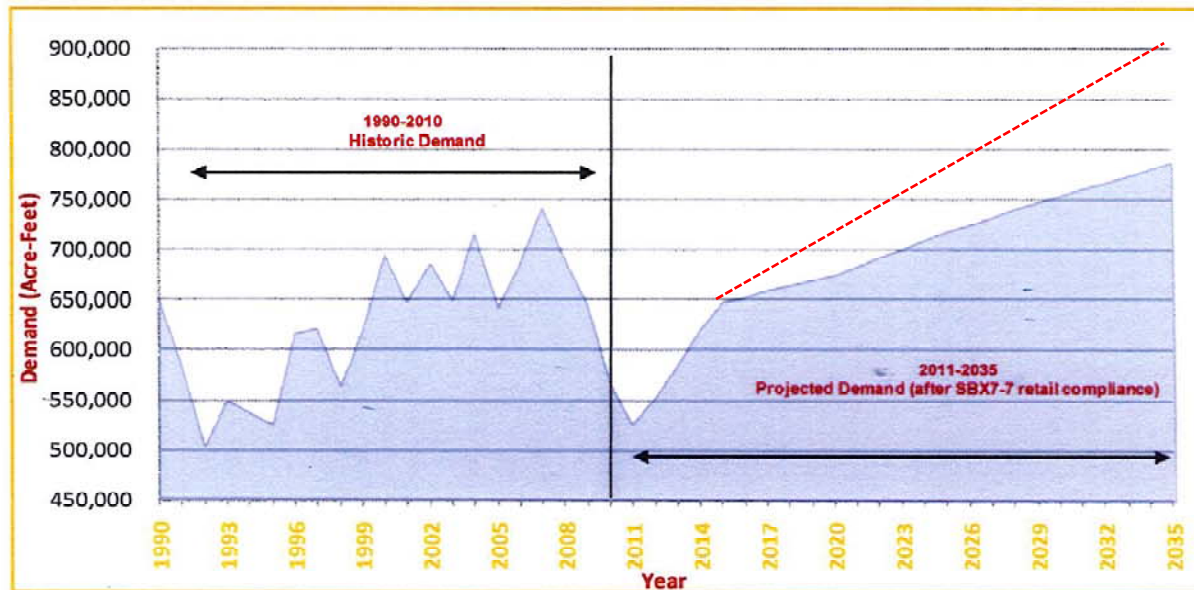
(From San Diego County Water Authority 2010 UWMP)

**TABLE 2-5. NORMAL YEAR REGIONAL WATER DEMAND FORECAST
ADJUSTED FOR WATER CONSERVATION (AF)**

	2015	2020	2025	2030	2035
Total Regional Baseline Demand	654,022	722,040	790,229	850,899	903,213
Additional Conservation	-6,737	-46,951	-72,234	-97,280	-117,528
Total Baseline Demand with SBX7-7 Conservation	647,285	675,089	717,995	753,619	785,685

Figure 2-2 illustrates the forecasted trend in projected water demands over the 2015 to 2035 time period. This figure combines historic water use and forecasted normal year demands reduced by future additional conservation savings.

**FIGURE 2-2: REGIONAL HISTORIC AND PROJECTED NORMAL
WATER DEMANDS (AF)**



San Diego Metropolitan Wastewater System

- PLWTP: 240 MGD
- North City Water Reclamation Plant (NCWRP): 30 MGD
- South Bay Water Reclamation Plant (SBWRP): 15 MGD
- Metro Biosolids Center (MBC)
- Point Loma Ocean Outfall (PLOO)
- South Bay Ocean Outfall (SBOO)
- Metro Wastewater Pump Stations/Pipelines



Wastewater Treatment Levels

- Primary
 - 65% Solids Removal
- Advanced Primary (PLWTP)
 - 87/88% Solids Removal
- Secondary
 - 90% Solids Removal
- Tertiary (NCWRP, SBWRP)
 - 99% Solids Removal

PLWTP Permit Background

- Clean Water Act (1972)
 - Wastewater Treatment Plants Require Permits
 - Secondary Treatment Required
 - Act Amended to allow Modified Permits at Less Than Secondary

PLWTP Permit Background (cont'd)

- Wastewater Treatment Plants MUST get a Permit or Modified Permit every 5 years
 - Environmental Protection Agency
 - Regional Water Quality Control Board
 - State Water Resources Control Board
 - California Coastal Commission

PLWTP Permit Background (cont'd)

- City of San Diego
 - Submitted Modified Permit Application
 - Later withdrew Modified Permit Application
 - Timeframe for Modified Permits Closed
 - EPA sued the City

PLWTP Permit Background (cont'd)

- Ocean Pollution Reduction Act (OPRA)(1994)
 - Then-Congressman Filner Sponsored
 - Allowed San Diego to apply for a Waiver
 - San Diego agreed to build 45 MGD of Water Reclamation Capacity (NCWRP, SBWRP)

PLWTP Permit Background (cont'd)

- Since then:
 - San Diego applies for a Modified Permit every 5 years
 - Environmental Community Support for Modification Required:
 - Refined estimate of cost to convert 240 MGD to Secondary
 - » In 2006, \$1Billion capital w/o financing or operating costs
 - Comprehensive external scientific review AND upgrade of Ocean Monitoring Program
 - Water Reuse Study, Recycled Water Study and Water Reuse Demonstration Project

PLWTP Permit Background (cont'd)

- Current Permit **EXPIRES** July 31, 2015
- Permit application due January 2015
- Work begins **January 2014**

San Diego Recycled Water Study

- Outlines Alternatives to Divert Almost 100 MGD from PLWTP
 - Includes 83 MGD of Indirect Potable Reuse Facilities near Harbor Drive, NCWRP and SBWRP
 - Discharges water to San Vicente and Otay Water Reservoirs
 - Reduces planned wastewater flows to PLWTP from 240 MGD to 143 MGD

San Diego Water Reuse Demonstration Project

- Proved ability to repurify wastewater at operational flow rates
- Quality of water similar to distilled water—

Far Superior to Current Raw Water Sources

Projected Cost Comparisons

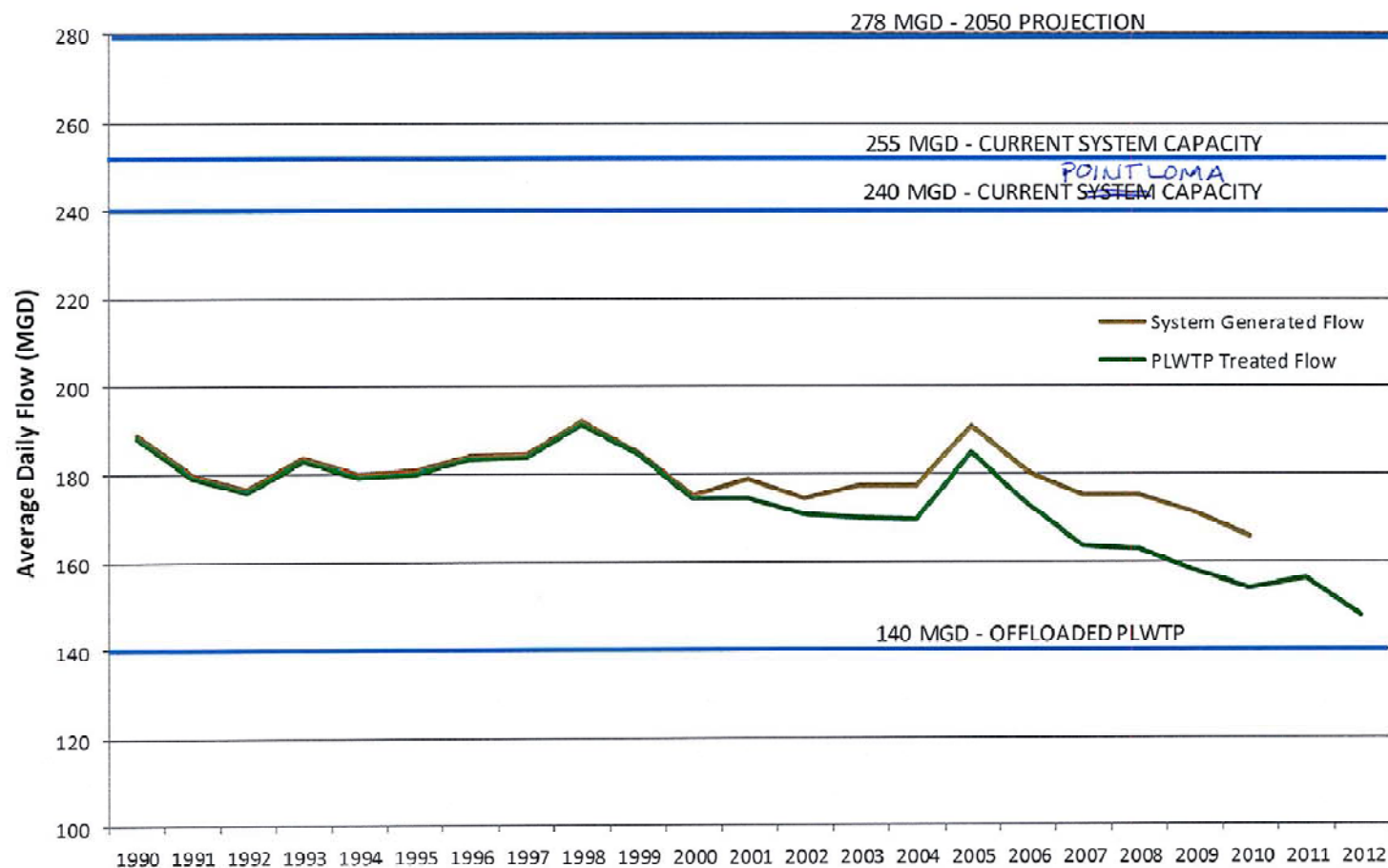
	2016 - 2035	Notes
MET Treated Water Projection	\$1,522 - \$4,000	Does not include adjustment for 1.2 M AF of local water supply development or 650,000 AF in planned and state-mandated conservation
SDCWA Projection 03/15/2011		

	2012
Carlsbad Desal	\$2,257
SDCWA News Release 03/08/13	

	Gross Cost	Less Avoided CIP	Less Salinity	Less Pt Loma Upgrades
IPR	\$1,700 - \$1,900	\$1,100 - \$1,300	\$1,000 - \$1,200	\$600 - \$800
City of San Diego Recycled Water Study Presentation 05/03/12				

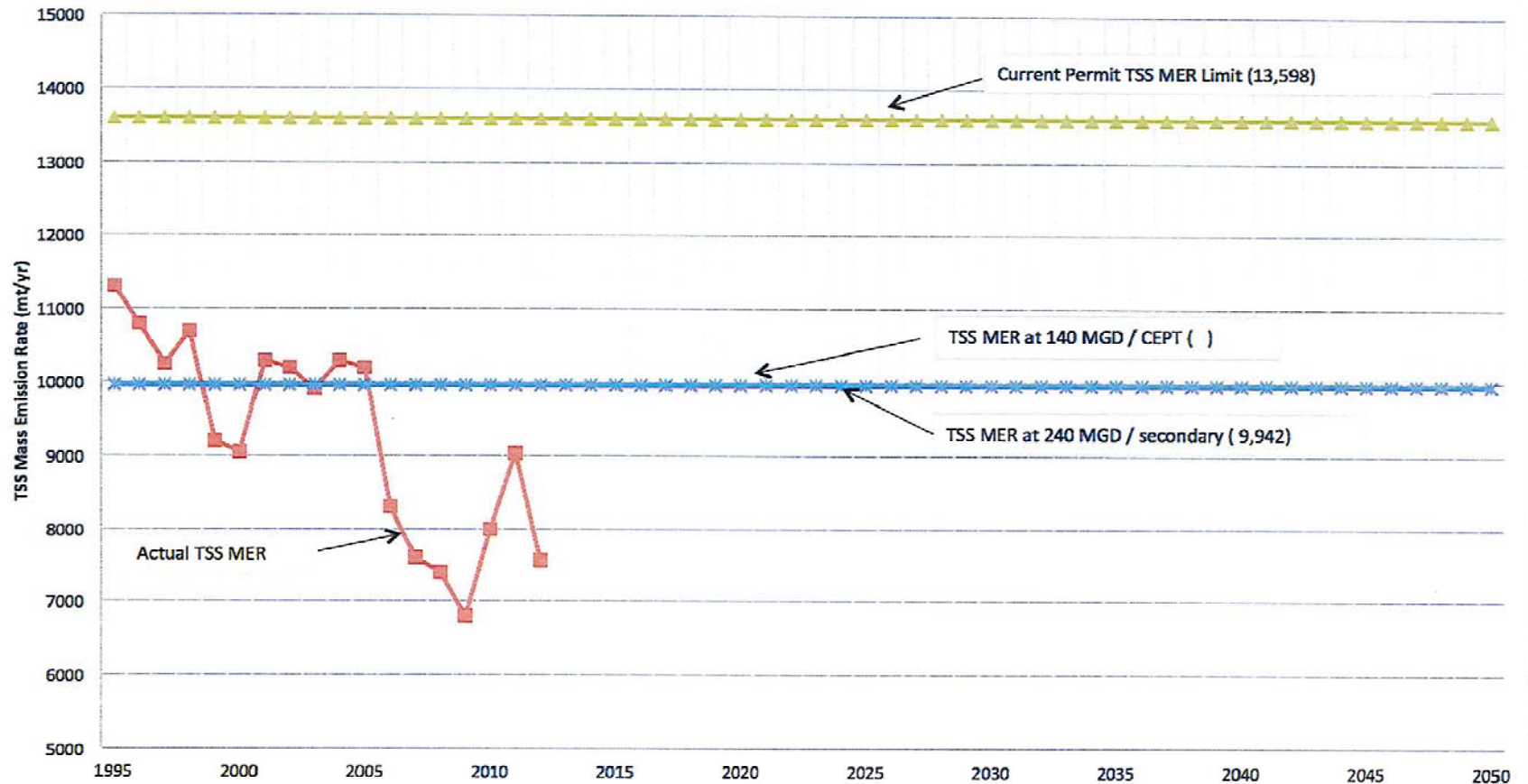
Potential Avoided/Downsized Project	Year	2013 Cost Projection
City of San Diego: PLWTP Secondary Treatment Upgrade	2015+	\$3.5 Billion
SDCWA: Camp Pendleton Desal	2025+	\$15.72 Billion
SDCWA: Colorado River Transmission	2035+	\$10.07 Billion
SDCWA: Local Pipeline Conveyance Constraints	2020+	YTBD
State: Bay Delta Conveyance	2025+	\$50 – \$60 Billion

Historical Metro Sewer System Generated Flow Vs. Point Loma Wastewater Treatment Flow



Prior to 2001 both SGF and PLM flows include Tijuana emergency flows, after 2001 Tijuana stopped discharging to Metro system

TSS MASS EMISSION RATE POINT LOMA WASTEWATER TREATMENT PLANT



Recommendations

- Create Long Range (≈ 20 year) Regional Water Reuse Program focused on potable water reuse that:
 - *Provides new, local, sustainable water supply (≈ 83 mgd)*
 - *Offloads PLWTP to ≈ 143 MGD*
- Obtain Legislation to permit SMALLER SECONDARY EQUIVALENT PLWTP (≈ 143 MGD) that:
 - *Avoids billions of dollars in capital, financing, energy and operating costs*
 - *Continues to protect the ocean environment*

System Maps

Current Metro Wastewater System



Metro Wastewater Master Plan

Through 2050



San Diego Recycled Water Study

Alternative





July 29, 2013

Councilmember David Alvarez, Chair
Natural Resources & Culture Committee
City of San Diego
202 C Street
San Diego, CA 92101

Dear Councilmember Alvarez:

This letter is sent on behalf of the Metro Wastewater JPA regarding the City of San Diego Advanced Water Purification Demonstration Project scheduled for discussion at the July 31, 2013 meeting of the Natural Resources & Culture Committee.

The Metro Wastewater JPA is a coalition of municipalities and special districts in the southern and central portions of San Diego County that share in the use of the City of San Diego's regional wastewater collection and treatment facilities. This coalition represents 35% flow and a \$65 million annual budget in relation to the Metro wastewater system. The JPA member agencies include the cities of Chula Vista, Coronado, Del Mar, El Cajon, Imperial Beach, La Mesa, National City and Poway; the Lemon Grove Sanitation District; the Padre Dam Municipal and Otay Water Districts; and the County of San Diego on behalf of the County Sanitation Districts.

We applaud the City of San Diego and its staff for the recent success of the Advanced Water Purification Demonstration Project and associated progress on the legislative front. This accomplishment establishes wastewater reuse as a critical component of the region's future water supply. As a result, we respectfully request the Committee's support for a broader effort to include the following:

1. That staff, in partnership with stakeholders, undertake a process to create a Long-Range *Regional Water Reuse Program* that includes water reuse options beyond a single facility, incorporating the most cost effective possibilities within Metro's service boundary thus maximizing opportunities to create new, local sustainable water supply while at the same time significantly reducing Point Loma Wastewater Treatment Plant flows.
2. That staff, in partnership with stakeholders, pursue legislation to permit a smaller, secondary equivalent Point Loma Wastewater Treatment Plant that continues to protect the ocean environment but avoids billions of dollars in unnecessary capital, financing, energy and operating costs associated with an upgrade to Secondary Treatment.

Future steps would include participation of the San Diego County Water Authority to ensure that water supply planning incorporates expanded water reuse opportunities, and coordinated multi-agency legislative outreach to implement a plan that might serve as a model of fiscal and environmental stewardship for the state and nation.

Councilmember David Alvarez
Advanced Water Purification Project
July 29, 2013

Thank you for considering the Metro JPA's request that hopes to create a true alliance between the City of San Diego, member agencies, and environmental and ratepayer stakeholders to realize the maximization of water reuse to the benefit of our region's ratepayers and the environment.

Respectfully,



Cheryl Cox
Chair, Metropolitan Wastewater JPA
Mayor, City of Chula Vista

Attachment

- c: Metropolitan Wastewater Joint Powers Authority Board Members and Agency Councils and Boards
Metropolitan Wastewater Joint Powers Authority Technical Advisory Committee Members
Members of the Independent Rate Oversight Committee
Walt Ekard, City of San Diego, Chief Operating Officer
Roger Bailey, Director, City of San Diego Public Utilities Department
Ann Sasaki, Assistant Director, City of San Diego Public Utilities Department
Marsi Steirer, Deputy Director, City of San Diego Public Utilities Department



WATER REUSE AS A STRATEGY TO SECURE SECONDARY EQUIVALENCY AT POINT LOMA WASTEWATER TREATMENT PLANT

EXECUTIVE SUMMARY

The Point Loma Wastewater Treatment Plant (PLWTP) is operated by the City of San Diego and currently serves the City of San Diego and 12 member agencies throughout the County.

PLWTP is permitted to treat up to 240 million gallons of wastewater a day and has operated at levels greater than 180 mgd while meeting or exceeding all general and specifically negotiated regulatory requirements necessary to maintain a permit waiver thereby allowing it to remain as a smaller advanced primary treatment plant.

Members of the Metropolitan Wastewater Joint Powers Authority (JPA) believe that permanent acceptance of a smaller PLWTP as an advanced primary treatment plant can be achieved through development and implementation of a comprehensive, systematic Regional Water Reuse Plan. This Plan must increase public awareness, further catalyze customer action through individual water conservation and water reuse; consider opportunities for storm water capture, and the use of gray water and rainwater; expand recycled water opportunities; and implement a variety of agency-specific and collaborative large-scale potable water reuse projects including Indirect Potable Reuse (IPR) resulting in a significant off-loading of the treatment demand on PLWTP.

A successful effort would secure state and federal legislation accepting secondary equivalency at a smaller PLWTP making future permit waiver processes unnecessary and avoiding, on behalf of our ratepayers, not only the estimated \$3.5 billion dollar capital/financing expense of upgrading PLWTP to secondary treatment (not to mention millions of dollars in annual operating costs), but perhaps also alleviating potable water demands to such a degree as to allow a smaller Sacramento delta option and fewer desalination projects (avoiding additional billions of dollars in capital, operating, and energy costs, as well as carbon generation).

THE CASE FOR SECONDARY EQUIVALENCY AT POINT LOMA

City of San Diego Water and Wastewater Utilities

The current practice of the City of San Diego ("the City") is to procure raw water, treat it to drinking water standards and distribute it throughout the City. The City also collects and treats wastewater for its residents and businesses and for a number of other agencies and discharges treated wastewater to the ocean. These participating agencies make up about 35% of the flow in the system and are represented by the Metro Wastewater Joint Powers Authority ("JPA") which is comprised of the County of San Diego and the surrounding cities of Chula Vista, Lemon Grove, El Cajon, Coronado, Del Mar, Imperial Beach, La Mesa, National City, and Poway, and the Otay and Padre Dam Water Districts. The City wastewater system also produces reclaimed water for use in

irrigation and industrial purposes, and distributes through its own separate piping system (purple pipe).

The City's wastewater system consists of the following Municipal and Metropolitan wastewater infrastructure: a Municipal wastewater system of pipelines and pump stations which collects and sends wastewater to the Metropolitan (Metro) wastewater system for treatment and discharge to the ocean. The Metro system consists of

- several large pipelines and pump stations,
- three treatment plants,
- a biosolids (sludge) processing plant (the Metro Biosolids Center) and
- two ocean outfalls.

The Point Loma Wastewater Treatment Plant (PLWTP) is permitted as a 240 million gallons per day (mgd) advanced primary (chemically enhanced) plant which discharges treated wastewater through the Point Loma Ocean Outfall (PLOO) 4.5 miles out in the ocean in 320 feet of water.

The North City Water Reclamation Plant (NCWRP) is a 30 mgd tertiary treatment plant which produces reclaimed water. Since the NCWRP does not have its own outfall, wastewater not needed for reclaimed water customers is treated to a secondary level and pumped to the PLWTP.

The South Bay Water Reclamation Plant (SBWRP) is a 15 mgd tertiary treatment plant which produces reclaimed water. Wastewater not needed for reclaimed water customers is treated to a secondary level and discharged through the South Bay Ocean Outfall (SBOO).

Wastewater Treatment

Wastewater treatment is basically the process of removing solids from the wastewater. All treatment plant processes typically begin with screens to remove debris such as pieces of wood, followed by removal of grit (mainly sand).

A Primary treatment plant then removes solids which are heavy enough to settle out of the wastewater by gravity.

Advanced Primary treatment plants such as the PLWTP then use chemicals to cause lighter solids to clump together and settle out by gravity.

A Secondary treatment plant has a primary level of solids removal followed by a biological treatment which removes lighter biological matter in the wastewater.

A Tertiary treatment plant like the NCWRP and the SBWRP has both Primary and Secondary treatment followed by filtration such as through anthracite coals beds. The required levels of treatment are typically measured by Total Suspended Solids (TSS) and Biological Oxygen Demand (BOD). The BOD is a measure of how much dissolved oxygen the treated wastewater might remove from the receiving water, such as the ocean.

Wastewater Treatment Regulation

The federal Clean Water Act passed in 1972 required that all wastewater treatment plants be permitted every five years. The permitting process in California involves the Environmental Protection Agency (EPA), the local Regional Water Quality Control Board

(RWQCB), the State Water Resources Control Board and the California Coastal Commission (CCC).

The Clean Water Act also required wastewater treatment plants to treat wastewater at least at a secondary level. The actual required treatment is based on what is needed to protect the receiving waters, such as lakes, rivers and the ocean. A number of dischargers are required to go to higher levels of treatment than secondary.

Several years after the Clean Water Act was enacted, it was amended to allow dischargers to receive a modified permit (waiver of secondary) if dischargers could demonstrate they could safely discharge wastewater to the receiving water at a treatment level lower than secondary such as Advanced Primary. In practice, permits were based on what was actually needed to protect the receiving waters--secondary in many cases, above secondary in other cases and below secondary in some cases.

Initially, the City of San Diego applied for a modified permit for the PLWTP but later withdrew the application and began planning to convert the PLWTP to secondary. Subsequently the window of time in the Clean Water Act for applying for a modified permit closed, and the EPA and several environmental groups sued the City for not being at secondary at the PLWTP. In 1994, the federal Ocean Pollution Reduction Act (OPRA) was passed. OPRA was sponsored by then-Congressman Filner and provided an opportunity for the City to apply for a modified permit for the PLWTP. In return, the City agreed to construct 45 mgd of reclaimed water capacity. This resulted in the construction of the NCWRP, the SBWRP and the SBOO. The City applied for and was granted a modified permit for the PLWTP in 1994.

Point Loma Wastewater Treatment Plant Permits

The City must apply for a new permit or modified permit every five years for the PLWTP. In order to gain support from the local environmental community for the modified permit sought every five years, the City has agreed to do a number of studies. Each study was reviewed by environmental groups and their experts.

The City conducted a refined estimate of costs to convert the PLWTP to secondary. The PLWTP is hemmed in by the Navy, the Cabrillo National Monument, the ocean and a cliff. This leads to higher costs for the addition of secondary treatment. The initial study indicated a capital cost of \$1 billion which has recently been escalated to \$1.4 billion in today's dollars, not including financing costs. With financing, current estimates top \$3.5 billion. In addition, secondary treatment requires a great deal of electricity. Annual operating and energy costs are estimated to increase by about \$44 million annually.

The City also conducted a comprehensive review of its Ocean Monitoring Program. In order to apply for a permit, dischargers must demonstrate the effect of their discharge on the receiving water. The City continuously collects data from the ocean near the discharge point of the outfall, measuring impacts on sediments, water quality, and aquatic and plant life. The City hired experts from well-known scientific organizations such as Scripps and Woods Hole to review the Ocean Monitoring Program and provide recommendations to make it more comprehensive. All the recommendations were implemented.

The City also agreed to conduct studies and projects to optimize wastewater reuse, although it was already producing reclaimed water at the NCWRP and the SBWRP. The Recycled Water Study looked at the feasibility of expanding recycled water use and producing potable water from wastewater. The Recycled Water Study concluded that since most of the recycled water uses in the area were seasonal irrigation requiring separate pipelines from the existing water system, increasing wastewater reuse would be more productive through pursuing potable reuse.

Potable Reuse can be either Indirect or Direct Potable Reuse.

- Indirect Potable Reuse (IPR) includes advanced treatment of wastewater followed by discharge to, for example, a drinking water reservoir and then to a water treatment plant.
- Direct Potable Reuse (DPR) sends advanced treated wastewater directly to a water treatment plant.

The Recycled Water Study outlined a concept whereby almost 100 mgd of wastewater otherwise planned to be treated at the PLWTP could be diverted upstream of the PLWTP to either Advanced Water Treatment Facilities (IPR) or to South Bay wastewater treatment plants. This would allow the permitted capacity of the PLWTP to be reduced from 240 mgd to 143 mgd.

The City then looked at the feasibility of treating wastewater to a potable level. A one mgd demonstration project was conducted at the NCWRP and a study was made of San Vicente Reservoir. The study and demonstration project showed that wastewater could be treated at the NCWRP to a level sufficient for safe discharge to San Vicente Reservoir for subsequent treatment at a water treatment plant. The process would be Indirect Potable Reuse (IPR). Water produced at the demonstration site was almost the same quality as distilled water.

The current modified permit for the PLWTP expires on July 31, 2015. The application for a new permit must be submitted no later than January 2015. It takes approximately one year to collect and assemble the data required for the permit application. That process is expected to start in January 2014.

THE CASE FOR POTABLE REUSE AS A STRATEGY

Potable Reuse/Secondary Equivalency Program Concept

The San Diego region is semi-arid and needs the most cost effective and diverse system of water supply it can achieve. Potable water reuse of wastewater, either Indirect or Direct, appears to be a competitive choice in producing a new water supply. The region also needs a wastewater treatment system that protects the ocean environment.

The capital and operating costs of providing additional water for the region will have a significant impact on water ratepayers. In addition, if the City was ever required to convert the PLWTP to secondary, the capital and operating costs would likewise be significant to the wastewater ratepayers. In almost every case, water and wastewater ratepayers are the same people. By considering combined water supply and wastewater treatment needs, there is an opportunity to reduce the impact to ratepayers by billions of dollars in capital and financing costs, and tens of millions of dollars in annual operating

and energy costs. An additional benefit would be a reduction in environmental impacts because much less energy production would be needed.

The Recycled Water Study outlines a concept whereby almost 100 mgd of actual and planned wastewater flow is diverted upstream from the PLWTP to either potable reuse or to South Bay wastewater treatment plants. This concept includes 83 mgd of Advanced Water Treatment (IPR) and could reduce the permitted capacity of the PLWTP from 240 mgd to 143 mgd. The environmental impact of a 143 mgd Advanced Primary Plant at Point Loma would be similar to or less than the impact of a 240 mgd Secondary Plant (Secondary Equivalency).

Since the historic flows through the PLWTP have exceeded 180 mgd and the comprehensive Ocean Monitoring Program has shown no detrimental impact to the ocean environment, there would be no value in converting the remaining flow at the PLWTP (say 143 mgd) to secondary. Even converting 143 mgd of capacity at the PLWTP would result in hundreds of millions in capital costs, tens of millions in annual operating costs and the environmental impacts of producing the energy to operate the secondary plant.

Rather than planning for one wastewater or water project at a time, the region's needs for wastewater treatment and additional water supply should be planned programmatically together over a longer period of time. Conceptually, almost 100 mgd of potable reuse and diversion of wastewater to South Bay could be implemented over a specific timeframe and combined with lowering the permitted capacity of the PLWTP to 143 mgd, for example. In return, action would be taken to allow the PLWTP at the lower capacity to remain at Advanced Primary treatment. The PLWTP would still be required to get a new permit every five years and demonstrate through the City's comprehensive monitoring program that it was not harming the ocean environment.

CONCLUSION

As representatives of our region's ratepayers, we are at a critical juncture. The choices we make as a result of actions we take or, perhaps, opportunities missed due to our inaction, will have environmental and fiscal ramifications for many generations to come.

The Metropolitan Wastewater JPA supports the development of a Regional Water Reuse Plan so that both new, local, diversified water supply including potable reuse is created and maximum offload at Point Loma is achieved to support state and federal legislation accepting a smaller PLWTP as a secondary equivalent.

Success ultimately minimizes wastewater treatment costs and lessens the need for new water supply sources due to expanded water reuse thereby most effectively applying ratepayer dollars.

Metro JPA Goal: Create a 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.

RESOLUTION NO. 13-___

**A JOINT RESOLUTION OF THE METRO WASTEWATER JPA/
METRO COMMISSION, SUPPORTING DEVELOPMENT OF A LONG-RANGE
REGIONAL WATER REUSE PLAN AND SECONDARY EQUIVALENCY FOR
POINT LOMA WASTEWATER TREATMENT PLANT**

WHEREAS, the Point Loma Wastewater Treatment Plant (PLWTP) is a regional facility in the Metro Wastewater System, operated by the City of San Diego, permitted to treat 240 million gallons of wastewater per day to an Advanced Primary Level, serving a 12 member Joint Powers Authority that comprises approximately 35% of the total flow in the Metro Wastewater System/PLWTP; and

WHEREAS, the Clean Water Act of 1972 requires that wastewater be treated to achieve certain protections before ocean discharge and the permitting of wastewater treatment plants, and wastewater treatment plant permits must be renewed every five years; and

WHEREAS, the Ocean Pollution Reduction Act (OPRA) of 1994 allowed the City of San Diego to apply for modified permits allowing PLWTP to continue operating at an Advanced Primary Treatment Level while meeting or exceeding all general and specifically negotiated regulatory obligations including ocean protection requirements; and

WHEREAS, the current modified permit for the PLWTP expires on July 31, 2015, and City of San Diego staff must finalize a strategy and begin the extensive work required to secure the next permit in or around January 2014; and

WHEREAS, in order to secure “non-opposition” for modified permits from environmental stakeholders, the City of San Diego agreed to and successfully prepared verifiable estimates of the cost to convert the current 240 million gallon per day (mgd) PLWTP to Secondary Treatment Levels, conducted a comprehensive external scientific review of ocean monitoring implementing all recommendations for an enhanced ocean monitoring program, and built 45 mgd of water reclamation capacity in the form of the North City Water Reclamation Plant and the South Bay Water Reclamation Plant; and

WHEREAS, the City of San Diego has 20 years of ocean monitoring data demonstrating that the Advanced Primary PLWTP consistently protects the ocean environment; and

WHEREAS, the City of San Diego has successfully completed a 1 mgd Advanced Water Purification Demonstration Project producing water that is far superior in quality to raw water currently delivered to local reservoirs, and produces potable water of a quality similar to distilled water; and

WHEREAS, the City of San Diego’s survey indicates that percentages of those favoring Advanced Treated recycled water as an addition to the drinking water supply have increased from 36% in 2004 to 73% in 2012; and

WHEREAS, the City of San Diego has also achieved significant legislative progress associated with the Advanced Water Purification Demonstration Project to advance both indirect and direct potable water reuse projects; and

WHEREAS, the San Diego region forecasts the need for billions of dollars in ratepayer revenue to fund imported water supply projects to address transportation constraints and supply challenges, including a locally owned Colorado River pipeline and plans for at least three ocean desalination plants, all of which will require significant capital, operating and energy expenditures; and

WHEREAS, it is possible to develop a long-range regional water reuse plan (Long-Range Regional Water Reuse Plan) to divert at least 100 mgd of flow from PLWTP largely to water reuse projects resulting in new, local water supplies, including potable water, and a smaller secondary equivalent PLWTP with reduced Total Suspended Solids mass emission rates equivalent to those of a 240 mgd secondary treatment PLWTP; and

WHEREAS, this proposed Long-Range Regional Water Reuse Plan will avoid billions of dollars in unnecessary capital, financing, energy and operating costs to upgrade a facility that already meets or exceeds all general and specifically negotiated regulatory requirements for ocean protection; and

WHEREAS, successful implementation of this proposed Long-Range Regional Water Reuse Plan also creates the potential to avoid or downsize currently planned water transportation and supply projects; and

WHEREAS, this proposed Long-Range Regional Water Reuse Plan to maximize local water reuse to create a new, local, sustainable water supply while offloading PLWTP to secure acceptance of a smaller secondary equivalent treatment plant is a fiscally prudent, environmentally sound critical regional priority.

NOW, THEREFORE, BE IT RESOLVED by the Board of the Metro Wastewater JPA/ Metro Commission as follows:

Section 1: That Metro Wastewater JPA/ Metro Commission supports developing a Long-Range Regional Water Reuse Plan that includes the most cost effective water reuse options, including potable reuse, within the Metro Wastewater System's service boundary.

Section 2: That Metro Wastewater JPA/ Metro Commission supports developing a Long-Range Regional Water Reuse Plan with the goal of realizing a smaller secondary equivalent PLWTP to avoid spending billions of dollars in ratepayer monies for an unnecessary upgrade to Secondary Treatment, instead potentially funding the creation of new water supplies, including potable water reuse.

Section 3: That Metro Wastewater JPA/ Metro Commission supports developing a Long-Range Regional Water Reuse Plan to maximize opportunities to create new, local sustainable water supplies thereby creating opportunities to avoid or downsize billions of dollars in future water supply projects.

Section 4: That, in addition, the Metro Wastewater JPA/ Metro Commission supports pursuing judicial and/or legislative remedies for long-term acceptance of a smaller secondary equivalent PLWTP that continues to protect the ocean environment while avoiding billions of dollars in capital, financing, energy and operating costs for an unnecessary conversion of the PLWTP to Secondary Treatment.

PASSED AND ADOPTED at a regular meeting of the Board of the Metro Wastewater JPA/ Metro Commission on the 1st day of August, 2013:

AYES:

NOES:

ABSENT:

ABSTAIN:

Cheryl Cox, Chair

ATTEST:

Lori Anne Peoples, Secretary

AGENDA ITEM 7

Attachment

(JPA Budget for JPA Website
Design Svs.)



vision internet

2530 Wilshire Blvd. 2nd fl
Santa Monica CA 90403

888.263.8847 / 310.656.3100
310.656.3103 fax
info@visioninternet.com
www.visioninternet.com

July 25, 2013

Karyn Keese
San Diego Metro Wastewater JPA
276 Fourth Ave
Chula Vista, CA 91910

Re: Quote for Services

Dear Karyn,

Thank you for the opportunity to submit a quote for services to the San Diego Metro Wastewater JPA. I enjoyed the chance to speak with you about your goals for the project and, based on our discussions so far, the Vision Team already sees a lot of potential for your website. With more than 500 successful government, public agency, and non-profit agency clients in 40 states, including many projects in California, we are very excited about applying our technical skills and knowledgeable experience to your website redesign.

Below is a brief summary of the services we can provide to the San Diego Metro Wastewater JPA. Please note that this is only an overview of a website package based on our initial discussions with you, and that we can discuss additional work as required by the organization. We can also prepare a more detailed proposal for you further outlining our many interactive components and features.

If you have any questions about this quote, please feel free to contact me. I look forward to speaking with you further about your website!

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Susan", with a stylized flourish extending from the end.

Susan Nguyen
Regional Sales Manager
Vision Internet Providers, Inc.

SCOPE OF WORK

Website Development

With Vision Internet, you are sure to receive a website that delivers on its potential. Through our thorough consultation process, we create unique solutions tailored to our government clients' most pressing concerns. We will build your website from the ground up with your needs and objectives in mind. To fulfill these objectives and reach your target audiences, we recommend:

Attractive Design

Design is important. Today, many people judge the quality of an organization largely based upon the quality of its website. These opinions are especially influenced by the initial impression of the website's graphic design. Design ensures that users will use the website as a resource; if the website is not attractive and inviting, people assume it is of little value and do not spend the time necessary to find the information they need.

With Vision Internet, your website will have a design that makes it stand out on both a regional and national basis. Your website will be inviting, easy to use, and will reflect your unique identity.

Intuitive Navigation

For your website, we recommend organizing information by department topic, and/or target users. Keep in mind that the average user does not know the organizational structure of your organization, nor needs to. Our approach allows users to find information in the variety of ways that are most important to them. This is a solution we use on many of our government websites making it easy for visitors to find information. This is because content is available through multiple "paths" making it simple for users to search the site regardless of their preferred method. We often implement Action Based Navigation which allows users to easily find a particular service or page on your website through an easy-to-use drill down menu, such as *"I Want To...view an event, fill out a form, etc."*

Vision Content Management System™

As a part of your project, we are offering the Vision Content Management System™ which allows non-technical staff to add, edit, and delete content as well as control who has access to managing different areas of the website. This means that your staff can update announcements, press releases, news, documents, and other pages without knowing how to program. This is done through simple and easy to use administration screens.

Because staff can update and maintain their website directly through browser-based forms, you can effectively cut your maintenance costs and redirect existing technical resources toward more important areas.

INCLUDED INTERACTIVE COMPONENTS AND FEATURES

Interactive components provide a higher level of interactivity for your website visitors. Included in your project estimate are the following components and functionality:

SITE ADMINISTRATION AND SECURITY

- Audit Trail Log
- Backend Content Title Search
- Backend Dashboard
- Broken Link Reporter
- Content Review and Publishing
- Component Manager
- Content Scheduling
- Context Sensitive Online Help
- Departmental Page Restrictions
- Document Central
- Drag and Drop Multiple File and Image Uploading
- Email Address Masking
- Enhanced User Interface
- Flexible Site Variable Settings
- Image Library
- Page Template Library
- Personal Toolbar
- Role-Based Security
- Scheduled Content Review
- SiteMaster™ Template Builder
- Submission Validation (reCAPTCHA)
- Recycle Bin
- Updated and Expired Content Reporting
- Web Traffic Statistics
- Widget-based Layout Options
- Workspace

CONTENT EDITING

- Advanced WYSIWYG Editor
- Search and Replace
- Spell Checker
- Style Gallery
- Table Wizard
- Undo/Redo
- User Commenting
- Version Control

ADVANCED NAVIGATION MANAGEMENT

- Automatic Breadcrumbs
- Connected Pages
- Content Categories
- Dynamic Drop Down Menus
- Error 404 (Page Not Found) Handling
- External Link Splash Page
- Friendly URL Redirect
- Navigation Control
- Navigation Redirect
- Page Linking
- Quick Links
- Single-Source Publishing
- Site Search (Google CSE)
- Sitemap Generator

USER EXPERIENCE AND INTERACTIVITY

- Business Directory
- Community Spotlight
- Dynamic Calendar System
- In-page Content Editing
- Job Posts
- News



- Dynamic Homepage
- Facilities Directory
- Facilities Reservations
- Feedback Form
- Form Builder
- Frequently Asked Questions
- RFP Posts
- Rotating Homepage Banners
- Service Directory
- Staff Directory
- Sticky News
- Weather Update

DEPARTMENT MANAGEMENT

- Department-Level Administration
- Department-Level Navigation
- Department-Level Sitemap

OUTREACH, MEDIA, AND SOCIAL NETWORKING

- Audio and Video Embedding
- Bookmark and Share
- eNotification
- Emergency Alert (site wide)
- Facebook FeedReader™
- Forward to a Friend
- GovTrack CRM™
- OneClick Social Networking™
- Photo Gallery & Slideshow
- RSS FeedReader™
- Twitter FeedReader™

ACCESSIBILITY

- Automatic Alt-Tags
- Dynamic Font Resizing
- Dynamic Reader Download Links
- Google Translation Integration
- Printer Friendly Pages
- Table Accessibility Tools

ADDITIONAL INTERACTIVE COMPONENTS AND FEATURES

- Meetings Manager
- Responsive Design with visionMobile™

PRICING

Service	Budget
Website Redesign Package	

Our website development package is comprehensive and includes:

- The Vision Content Management System™, including the above-listed interactive components
- Web-based consultation meetings
- A web-based training session
- Basic Design Package
 - One homepage design concept with revisions
- 50 pages of content migration

Note: Your project's cost can be invoiced over multiple budget years without penalty or fees. If you have concerns about the proposed budget, let us know and we will be happy to talk with you about additional payment options.

Optional Services

Please note that we are already including web-based consultation and training as well as up to 50 pages of migration with your project. Depending upon your needs and available resources, you may opt for these additional services.

Optional Services	Budget
Onsite consulting <ul style="list-style-type: none"> • Onsite consulting and brainstorming sessions • Requirements gathering from project team • Creation of survey • All travel expenses 	\$4,860
Onsite training program <ul style="list-style-type: none"> • One day onsite training • Classroom style content editor training • Advanced administrator training • All travel expenses 	\$3,290

Because we are a local Southern California company, if you elect to have onsite consulting and training, we can offer the organization a \$3,000 discount total on these two services.



visionLive™ Subscription Maintenance

As an option to paying monthly fees for hosting and maintenance services, Vision Internet is offering your organization our new subscription version of the Vision Content Management System™. This new offering allows us to provide maintenance services and hosting for a flat annual fee of \$6,600¹. Additionally, we will also provide CMS upgrades at no extra cost. This allows you to affordably keep current with new technology, enhancements, and improvements.

visionLive™ takes the guess-work out of future budgeting by including all essential post-launch services into a flat annual subscription. The service includes:

- Hosting
- Unlimited technical support²
- CMS system upgrades
- Newly developed CMS components³
- Free redesign after 4 years of visionLive™ service

Please note that we can also provide hosting without additional support services for an annual rate of \$2,400⁴.

WEBSITE HOSTING

For over fifteen years, website hosting has been an integral part of our operations. We started our business as an Internet Service Provider (ISP) offering full service connectivity, design, and hosting. As the business evolved, we developed our relationship with CoreSite and Cogent, a global network provider, which enables us to provide comprehensive secure hosting solutions for our clients. We have our own co-location suite within a secure, state-of-the-art facility. Our hosting services include:

- Necessary bandwidth for website (over a 100 Mbps digital line)
- Power failure equipment including battery backup
- Redundant generator backup
- VMware Virtualization server with high available setting
- Operating system health monitoring and automatic hardware failover capability
- Centralized storage area network
- Full climate control
- Firewall protection
- 24 hour monitoring
- Security access via ID, biometrics, CCTV and key card
- Microsoft Windows Server 2008R2 or 2012 (based on the CMS version)
- Microsoft SQL Server 2005 standard, 2008R2 Standard or 2012 Standard (based on the CMS version)
- Monthly web usage statistics reports
- Fixed IP address for the website
- Daily onsite backups
- Guaranteed 99.9% uptime

¹ Subject to a 5% annual increase.

² Does not include updates to configuration, content, or formatting among other restrictions.

³ Does not include new features that require design customization to implement.

⁴ Subject to a 5% annual increase.



Not sure if a hosted, subscription-based plan is a good fit for you? We are flexible and offer a wide range of alternatives for clients who have other hosting and maintenance needs. Contact us to discuss a plan that will work for you.

Sample Client Websites

Vision Internet, the Government Website Experts, has more than 500 clients in 40 states, including California. Samples include:

- City of Poway (www.poway.org)
- National City (www.ci.national-city.ca.us)
- Imperial Irrigation District (www.iid.com)
- Yucaipa Valley Water District (www.yvwd.dst.ca.us)

For a complete list of our projects, please visit our website at www.visioninternet.com.

TERMS AND CONDITIONS

Vision Internet agrees to perform the services at the prices quoted in this document. This quote is valid for 180 days.

AGENDA ITEM 8

Attachment

(Operation Optimizations Consult
Svs Agmt)

METRO JPA/TAC Staff Report

Subject Title:

Consultant Services for Operation Optimizations

Requested Action:

Request to approve the subject agreement.

Recommendations:

Metro TAC:	Approved to forward item to Metro Commission for approval.
IROC:	IROC I&O Subcommittee supported on June 10, 2013
Prior Actions: (Committee/Commission, Date, Result)	This action was approved by IROC (June 10, 2013), JPA Metro TAC (June 19, 2013), and City Council (July 15, 2013).

Fiscal Impact:

Is this projected budgeted? Yes X No ____

Cost breakdown between Metro & Muni:	70 % Metro and 30% Muni of \$2,575,000
Financial impact of this issue on the Metro JPA:	35 % Metro of \$1,802,500 = \$630,875

Capital Improvement Program:

New Project? Yes X No ____

Existing Project? Yes ____ No X upgrade/addition ____ change ____

Comments/Analysis: Executive Summary attached

Previous TAC/JPA Action: Metro TAC approved on June 19, 2013

Additional/Future Action: None

City Council Action: City Council approved on July 15, 2013.

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

Project Name: Operation Optimizations Consultant Services Agreement

Name of Project Presenter: Pete Wong, Senior Civil Engineer

Project Description:

In the past several years, the Public Utilities Department (Department) has been evaluating and performing studies for ways to improve operational efficiencies through optimizations. These studies have been performed by Department staff. Based on the outcomes and recommendations of these studies, numerous strategic and efficiency measures have been developed and implemented to optimize Department operation and maintenance. To improve on what the staff has done, the Department intends to procure consultants with extensive experience and knowledge in optimizing operation and maintenance of large water and wastewater facilities. The selected consulting team will conduct a comprehensive Operational Optimization Study recommending optimization measures and implementation plans.

The Department issued a Request for Proposals for Professional Consultant Services on July 26, 2012. Three (3) firms submitted proposals on September 19, 2012. On January 25, 2013, a selection panel interviewed all three firms and selected CH2M Hill Engineers, Inc. as the most highly qualified firm based on the selection criteria and procedure.

CH2M Hill's contract scope requires review and evaluation of existing facilities, operations, and pertinent documents to determine if improvements in operational efficiencies and/or cost savings or revenue improvement can be made in the areas of energy utilization, water production and distribution, chemical usage, data utilization, wastewater sludge processing and disposal, operator staffing, and warehouse practices and procedures. The expected outcome of the contract is to develop implementable recommendations to improve operational efficiencies, and to increase cost savings and revenues. All recommendations will be based on the intent of maintaining the Department's operational performance with no additional risk such as wastewater spills, reduction in potable water quality, or increases in potable water main breaks. Recommendations will also ensure continued compliance with all regulatory requirements. It is the City's sole discretion to decide which recommendations will be implemented.

Project Cost and Schedule:

The proposed contract with contract with CH2M Hill has a total cost value of not to exceed \$5,150,000 for a duration of three (3) years effective from the date of City Council approval. It is estimated that the funding will be 50% Water and 50% Sewer. The breakdown in sewer portion will be 70% Metro and 30% Muni. NTP is anticipated to be issued in September 2013, and project completion in August 2015.

The following committees have approved this contract:

IROC	June 10, 2013
JPA Metro TAC	June 19, 2013
City Council	July 15, 2013.

AGENDA ITEM 9

Attachment

(Programmatic Wastewater
Pipelines Cond. Assmt. Agmt)

**METRO JPA/TAC
Staff Report**

Subject Title:

Programmatic Wastewater Pipelines Condition Assessment Agreement

Requested Action: Request to approve the subject agreement.

Recommendations:

Metro TAC:	Presented to Metro TAC on June 19, 2013
IROC:	Presented to IROC on July 9, 2012 as part of the wastewater system-wide condition assessment program.
Prior Actions: (Committee/Commission, Date, Result)	This action was presented to the Natural Resources and Culture Committee as part of the system-wide condition assessment program on February 27, 2013.

Fiscal Impact:

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	It is estimated that the funding will be distributed as follows: Metro: 40% and Muni: 60%
Financial impact of this issue on the Metro JPA:	35% Metro of \$3,200,000= \$1,120,000

Capital Improvement Program:

New Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Existing Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> upgrade/addition <input type="checkbox"/> change <input type="checkbox"/>

Comments/Analysis:

Please view attachment.

Previous TAC/JPA Action: This item was presented and approved by Metro TAC on June 19, 2013.

Additional/Future Action:

City Council Action: This item was presented and approved by City Council on July 9, 2013.

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

Project Name: Programmatic Wastewater Pipelines Condition Assessment Agreement

Name of Project Presenter: Pete Wong, Senior Civil Engineer

Project Description:

The Public Utilities Department (Department) owns and operates the Metropolitan Wastewater System, which is a vast and complex system consisting of over 3,000 miles of pipelines along with a myriad of pump stations and four treatment facilities. To enhance the system's longevity and operational reliability, the Department is pursuing a proactive condition assessment program to assess wastewater pipelines with the aim to reduce future costs and improve effectiveness of operation, maintenance and replacement of the aging wastewater conveyance system.

The performance of pipeline condition assessment requires a multi-disciplined engineering team to provide specialized expertise in various engineering disciplines to satisfy the many facets associated with the implementation and execution of facility condition assessments. Characteristically, assessments require expertise in the areas of geotechnical, structural, civil, mechanical, corrosion engineering and various other disciplines. Another essential component of facility assessment is the utilization of highly specialized and propriety equipment to identify facility defects, including acoustic, remote field eddy current and other technologies.

In October 2012, the Department requested proposals from qualified firms for the Programmatic Wastewater Pipelines Condition Assessment contract. In November 2012, a total of seven (7) firms submitted proposals pursuant to the Request for Proposal. Subsequently, the Department's Selection Panel evaluated the proposals and determined that a total of four (4) firms were highly qualified to participate in the interview process. In February 2013, the Selection Panel interviewed the four (4) short-listed firms. Based on the selection rating criteria and procedure, the Department selected Tran Consulting Engineers as the most qualified firm. The proposed Programmatic Wastewater Pipelines Condition Assessment agreement with Tran Consulting Engineers has a total cost value of not to exceed eight million dollars (\$8,000,000) for duration of 60 months (5 years) effective from the date of City Council's approval.

The Department will use this future contract to provide condition assessment services for approximately sixteen (16) existing large-diameter trunk sewers and ten (10) force mains of the major pump stations, which are the most critical reaches of the City's wastewater system. The facilities targeted under this contract include Pump Station 2 Force Mains, Point Loma Digested Sludge Pipeline, MBC/North City Centrate Pipeline and other major facilities. Tran Consulting Engineers will be required to identify and locate pipeline defects, determine structural integrity, liner integrity and identify any other deficiencies and conditions that pose a risk of failure to the conveyance system. Based on the established results of the condition assessment, the consultant will then proceed to develop a planning level action plan to facilitate maintenance, repair and/or replacement of these critical assets. These condition assessment efforts of the wastewater

conveyance facilities will provide a substantial value to the City by enabling early detection and economical correction of the identified problems which in turn will reduce the maintenance costs, catastrophic failures and reduce premature replacement of infrastructure.

Project Cost and Schedule:

The proposed contract with Tran Consulting Engineers has a total cost value of not-to-exceed eight million dollars (\$8,000,000) for duration of 60 months (5 years) effective from the date of City Council approval. It is estimated that the funding will be distributed as follows: Metro: 40% (Financial Impact on the Metro JPA: 35% Metro of \$3,200,000= \$1,120,000) and Muni: 60%.

The following schedule is anticipated:

Issue NTP	September 2013
Project Completion	September 2018

AGENDA ITEM 10

Attachment

(Cost of Service Study Update
(COSS))

BUILDING A WORLD OF DIFFERENCE

19JUNE 2013

WASTEWATER COST OF SERVICE STUDY

METROTAC



BLACK & VEATCH
Building a world of difference.®

KEY PERFORMANCE INDICATORS OF FINANCIAL VIABILITY

1

Cash Flow

2

Level of Reserves

3

Debt Service Coverage



Current study does not look at the impact due to Point Loma
Secondary costs

REVENUE REQUIREMENT COMPONENTS

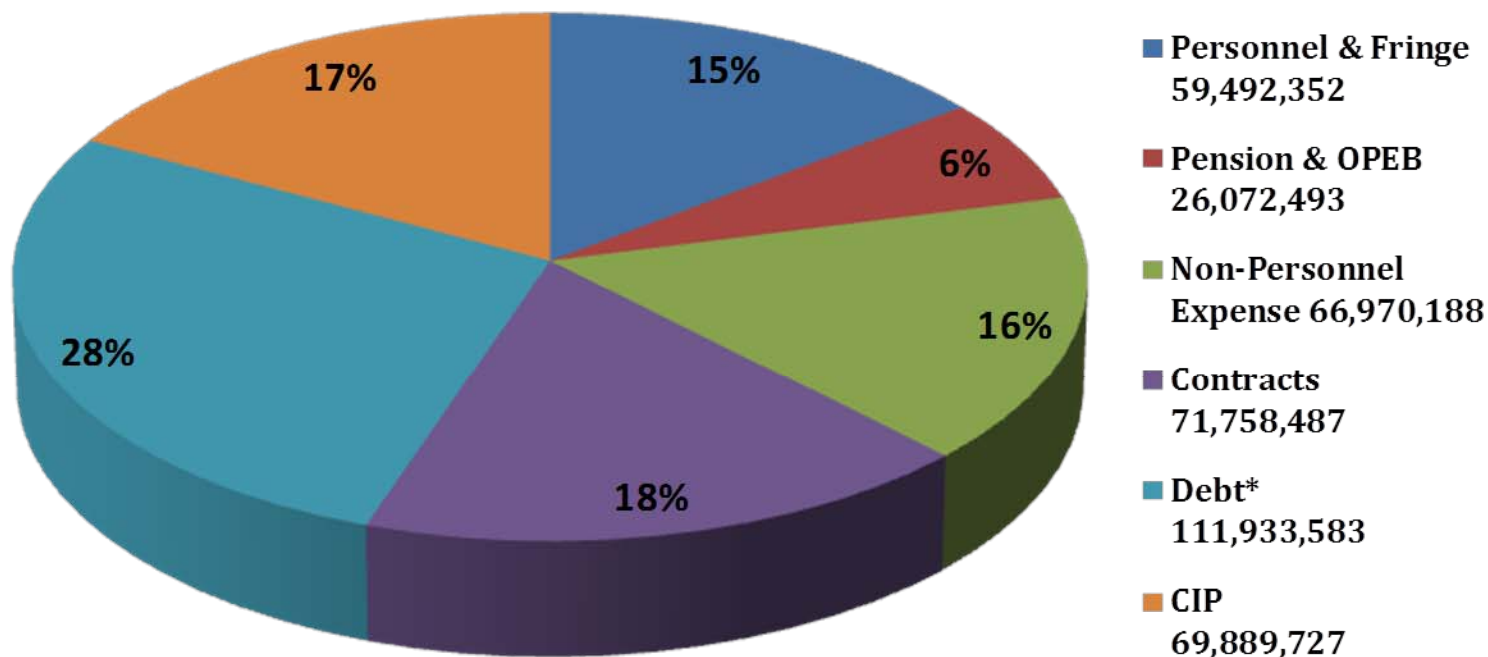


REVENUE REQUIREMENTS

- **Sufficient revenues to meet all obligations**
 - Operations and maintenance expenses
 - Debt Service payments
 - Capital needs
- **Meet legally required debt covenants**
 - Senior and aggregate requirements
 - $(\text{Revenue} - \text{O\&M}) \geq 1.2 \times \text{Senior Debt}$
 - $(\text{Revenue} - \text{O\&M}) \geq 1.1 \times \text{Wastewater Aggregate Debt}$
- **Provide reserve funding**
 - Unrestricted
 - Restricted

COST BREAKDOWN - WASTEWATER

Total FY 2014 Budget \$406,116,830



*Debt includes SRF Loan Payments

WASTEWATER FUND FY 08 – 12 CIP OVERVIEW

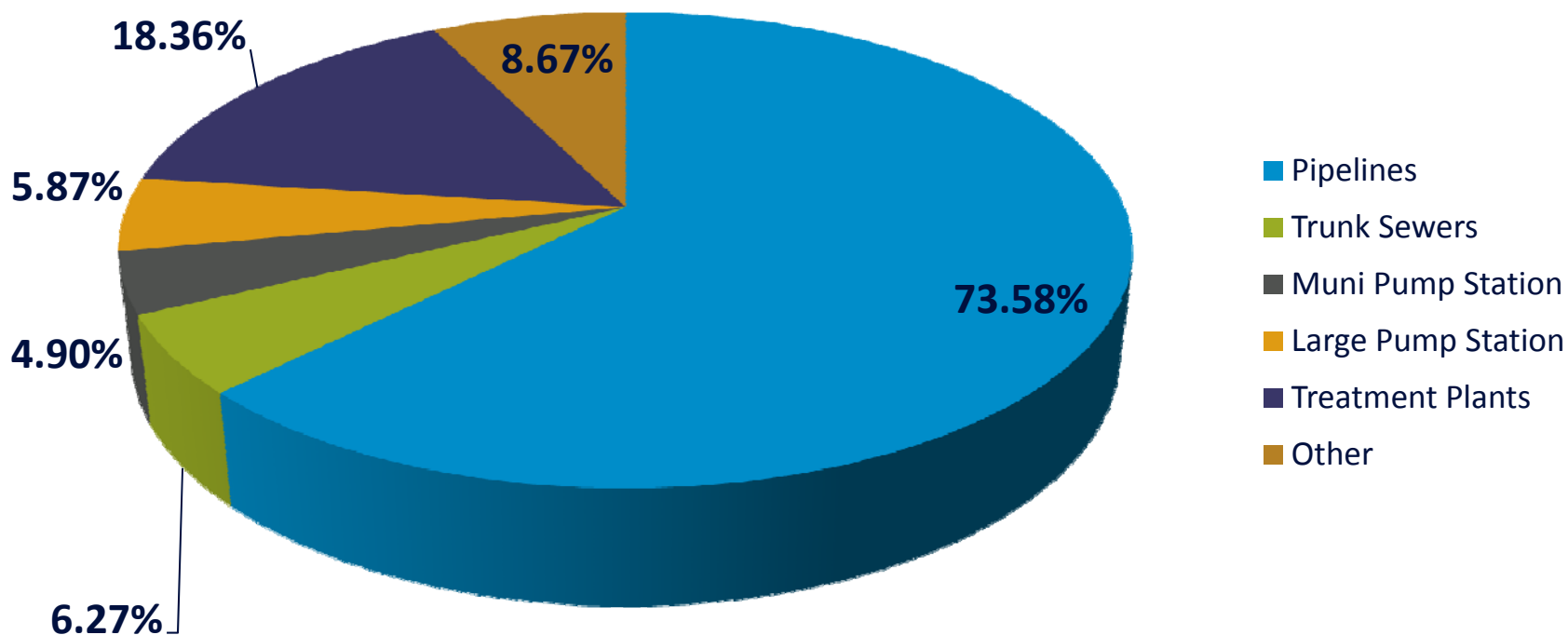
As of December 12, 2012:

- **50 Projects (Individual and “Annual Allocation”)**
 - 23 completed projects - \$235M
 - 14 projects in progress - \$65M
 - 13 projects cancelled/on hold
- **271.9 miles of main completed**
 - 99.8 miles replaced
 - 172.1 miles rehab
- **14 large diameter main projects**
- **Completed all Consent Decree mileage requirements**



WASTEWATER CIP FY 14 - 15

FY 14 - 15



WASTEWATER CASH FLOW

Description	Projected FY 2014	Projected FY 2015
Revenue Adjustment	0.00%	0.00%
Operating Results		
Total Revenues	\$384,157,600	\$391,718,200
Total Expenses	\$425,472,700	\$463,267,700
Net Income	(\$41,315,100)	(\$71,549,500)
Net Cumulative Cash Balance	\$401,340,100	\$339,790,600
Net Cumulative Cash Balance (Less Reserves)	\$304,730,400	\$230,745,700
Debt Service Coverage Metrics		
Parity DSC Ratio (1.2x)	1.59	1.50
Aggregate DSC Ratio (1.0x)	1.51	1.42

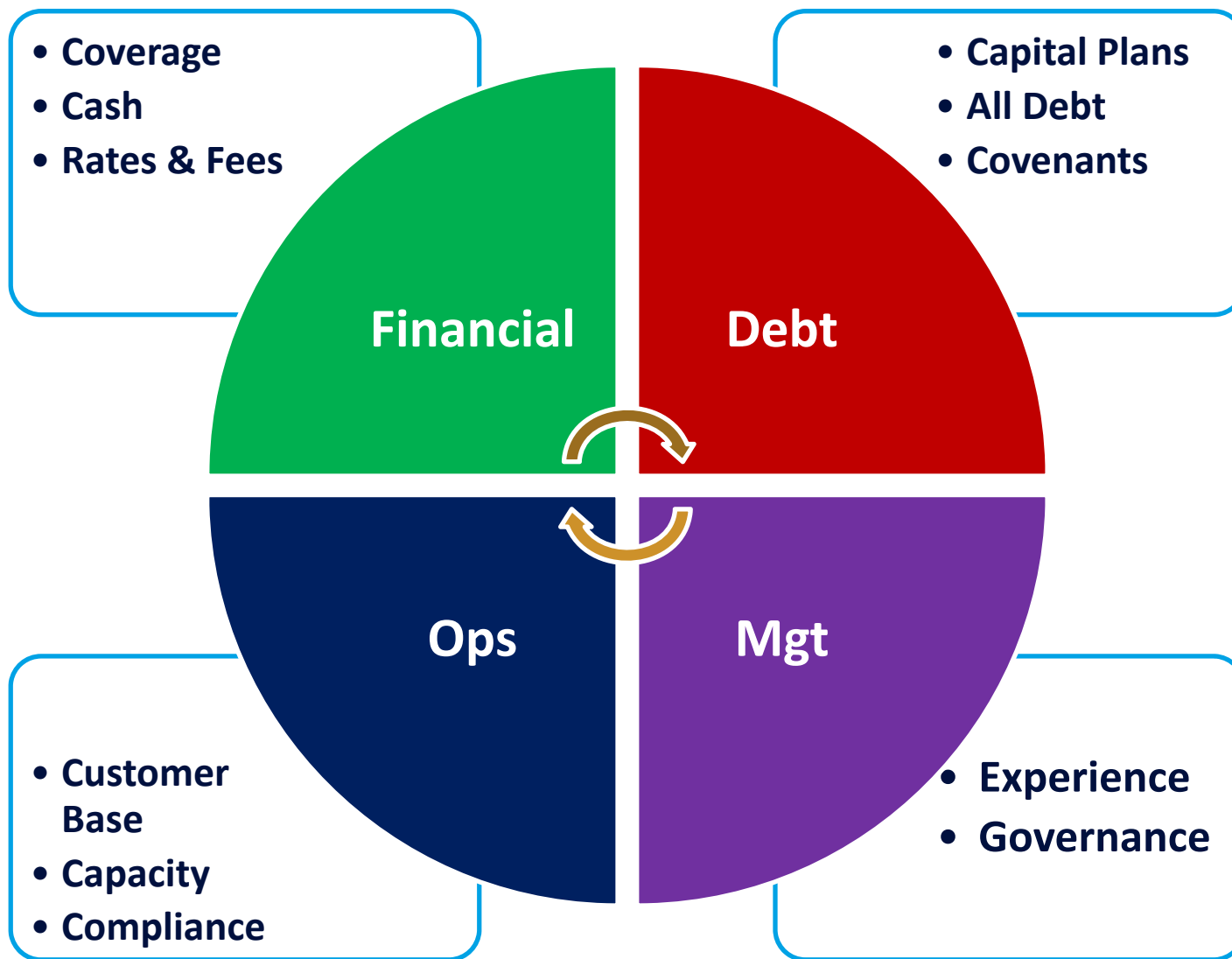
- Adjustments occur on January 1 within each Fiscal Year (FY).
- Targets a 1.25x aggregate debt service coverage.
- Cash finance all CIP for FY 14 and FY 15.
- DSC calculation does not use all revenues or expenses per bond covenant.



DEBT FINANCING OUTLOOK

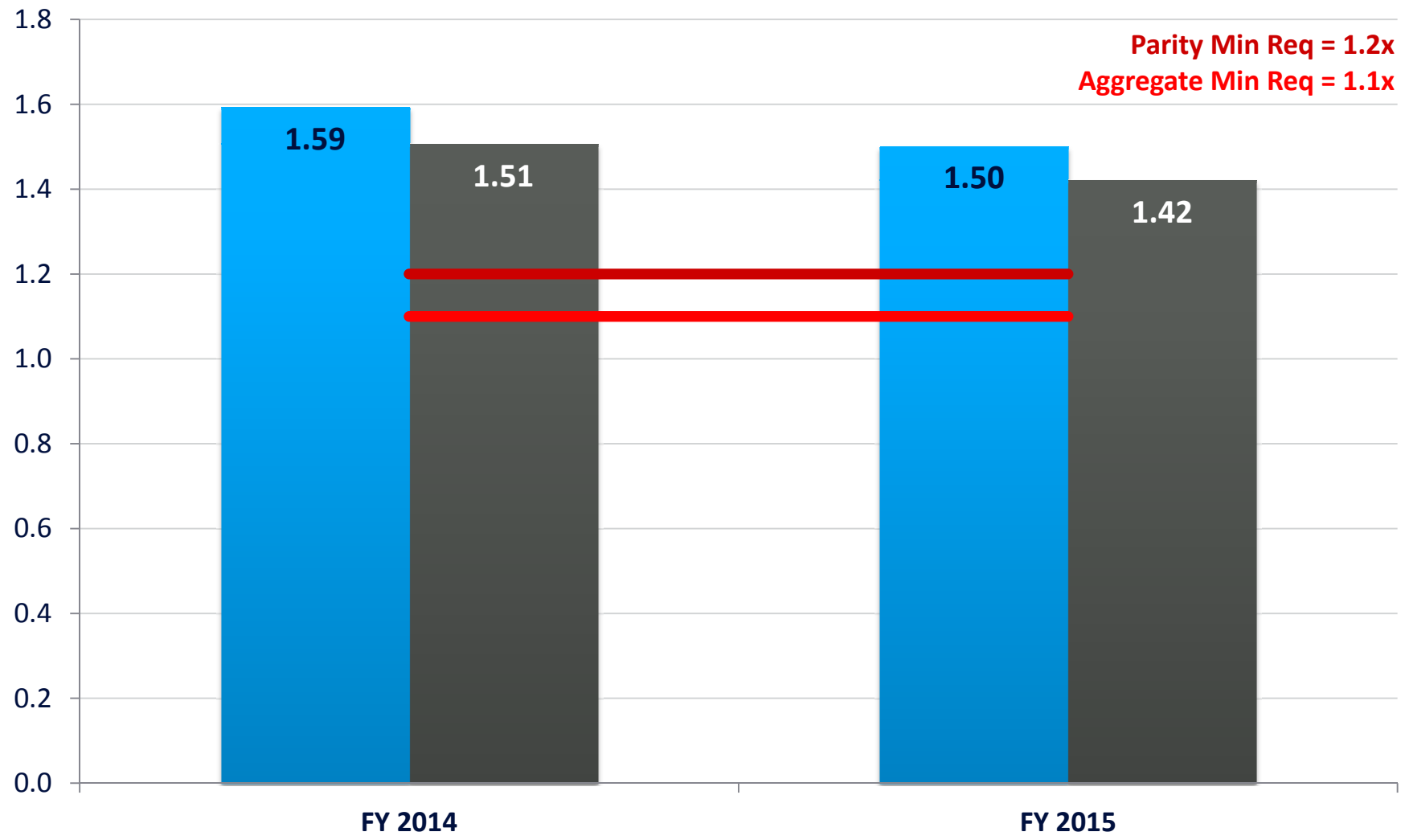
- Rating agencies applying due diligence criteria more stringently - **Greater focus on credit quality, reserve levels, and debt and reserve policies**
- Rating agencies want to be convinced about the health and sustainability of a utility – **Demonstrated willingness to raise rates is a key criterion**
- Sustainability is determined only after a thorough review of a utility's internal components – **Reviews are happening annually**

RATING AGENCY PROFILES



WASTEWATER DEBT SERVICE COVERAGE

FY14 – FY15



■ Parity DSC ■ Aggregate DSC — Parity DSC - Min Req — Aggregate DSC - Min Req

COST OF SERVICE PRINCIPLES



COST OF SERVICE STUDY FOCUS & CONSIDERATIONS

■ Principle:

To **match** the costs of providing service to customer classes and to **design** rates to equitably recover costs

■ Considerations:

- Maintain revenue adequacy
- Use fair and equitable cost allocations
- Use practical rate and billing formats
- Minimize customer impacts
- Maximize customer understanding and acceptance



Current study does not look at the impact due to Desalination, IPR, or Point Loma Secondary costs



COST ALLOCATION

- **Objective**

- Allocate the costs of operating the utility to the respective customers for a selected Test Year

- **How is the allocation accomplished?**

- Allocate costs to utility functions according to cost causative parameters
 - Estimate total customer class service requirements for each cost function
 - Divide costs by requirements for each function to get unit costs of service
 - Distribute costs to each customer class based on its share of total requirements for each cost function

WASTEWATER COST FUNCTIONS AND COST CAUSATIVE PARAMETERS

- Separate O&M and Capital Costs into Cost Functions

Collection



Lift Station



Wastewater Treatment



Solids



Outfall



- Distribute O&M and Capital Costs into Cost Causative Parameters

Contributed Flow



Infiltration / Inflow



Strength



Customer Billing



Base Costs

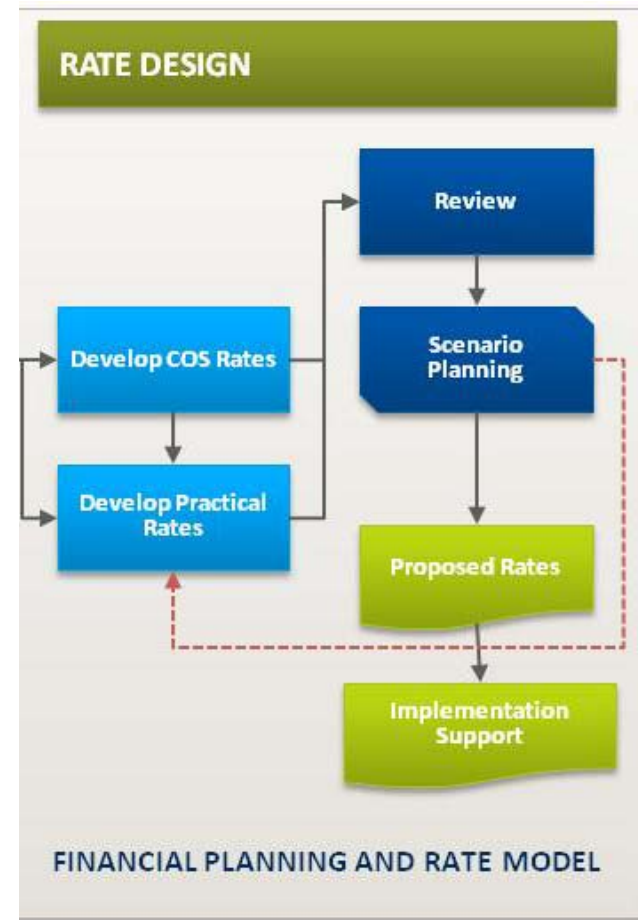
Treatment Costs

Customer Costs

RATE DESIGN

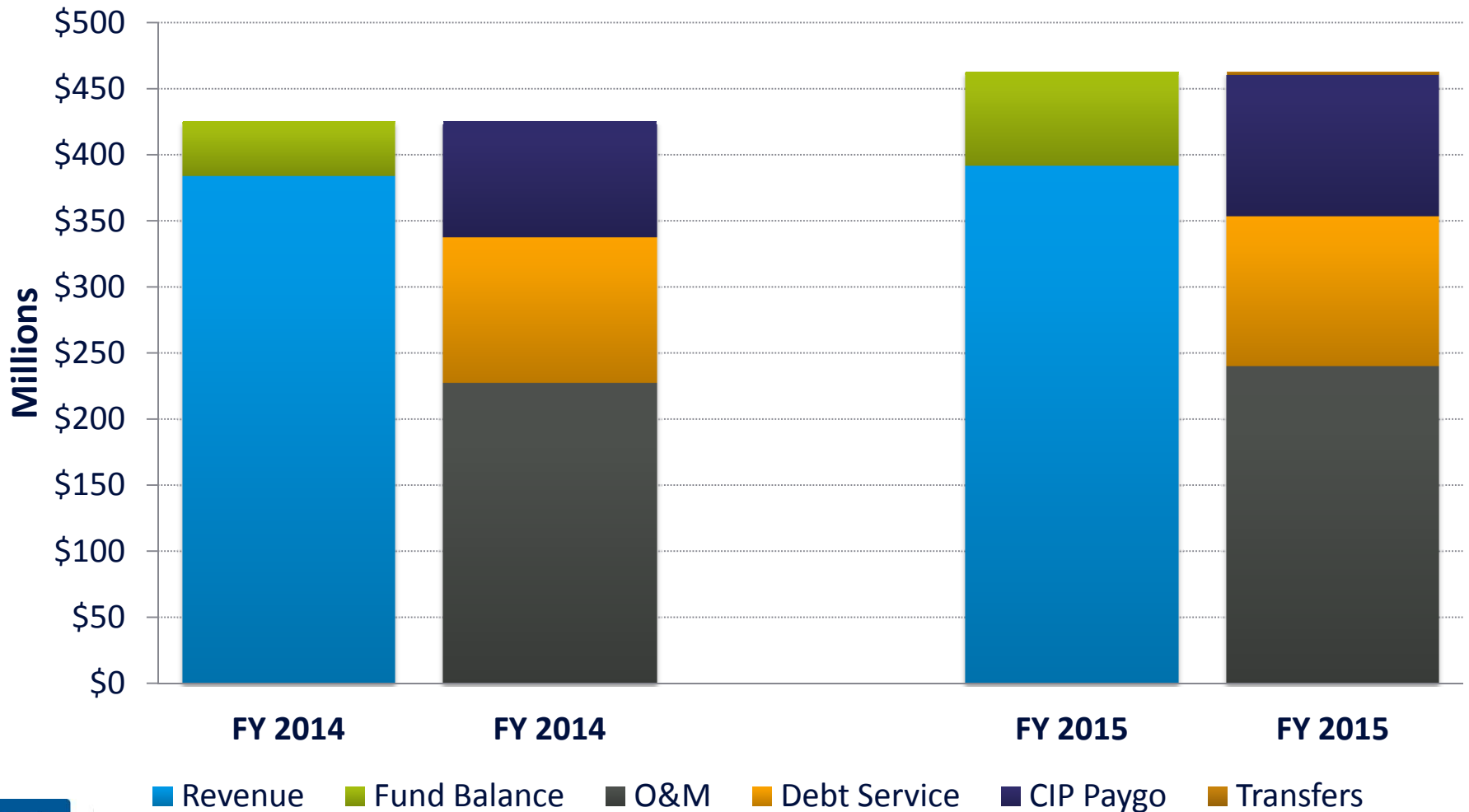
RATE DESIGN

- **Objective**
 - Develop rates adequate to recover the total revenue requirements
- **How are these Accomplished?**
 - Review suitability of existing rate form
 - Design cost of service rates
 - Examine impact of cost of service rates on individual customers and customer classes
 - Design practical alternative rate structures, if necessary
 - Examine impact of alternative rates



BALANCED BUDGET

FY14 – FY15 REVENUES & REVENUE REQUIREMENTS: WASTEWATER



AGENDA ITEM 13

Attachment

(MetroTAC Update/Report)

MetroTAC
2012/13 Work Plan
May & June 2013 (Revised Per Metro TAC)

MetroTAC Items	Description	Subcommittee Member(s)
<i>JPA Website Update</i>	<i>5/13: The Metro TAC would like to update the current website as it is outdated. A review of the current website and its limitations will be on the Metro TAC agenda in the next couple months.</i>	
<i>2013 Transportation Rate Update</i>	<i>5/13: PUD staff is proposing slightly revising the methodology and increasing the transportation rate. Subcommittee met with PUD staff on 6/12/13 to review calculations.</i>	<i>Al Lau Dan Brogadir Karyn Keese</i>
<i>PLWTP Permit Ad Hoc TAC</i>	<i>6/13: Ad Hoc created by JPA at their special June workshop. 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 federal 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 due to successful coordination between water and wastewater agencies. Ad Hoc has been meeting all month and has developed a Concept Paper. Ad Hoc will be giving presentations to PAs City Councils/Board of Directors during July 2013.</i>	Greg Humora Leah Browder Mark Watton Scott Tulloch Rick Hopkins Jim Smyth Karyn Keese
IRWMP	Bob Kennedy attended the Regional Advisory Committee (RAC) meeting of April 3, 2013. Minutes from this meeting are attached. <i>6/5/13: Bob Kennedy attended Meeting #43. Minutes are attached to this work plan.</i>	Bob Kennedy Greg Humora
Fiscal Items	The Finance committee will continue to monitor and report on the financial issues affecting the Metro System and the charges to the PAs. The debt finance and reserve coverage issues have been resolved. Refunds totaling \$12.3 million were sent to most of the PA's. 10/26/11: 2010 will be the first year where the PAs will be credited with interest on the debt service reserve and operational fund balances. Interest will be applied as an income credit to Exhibit E when that audit is complete.	Greg Humora Karen Jassoy Karyn Keese
Recycled Water Revenue Issue	Per our Regional wastewater Agreement revenues from SBWTP are to be shared with PA's. 4/11: City has agreed to pay out revenue to Wastewater Section and PA's credit will be on the Exhibit E adjustments at year end Open issues: Capacity reservation lease payments and North City Optimized System Debt service status. 12/11: Letter sent to San Diego regarding outstanding recycled water revenue issues. 2/13: Karyn Keese continues to meet with City staff to determine the basis of the water department's administrative charges. 4/13: Need Metro TAC member for subcommittee	Karyn Keese
Water Reduction - Impacts on Sewer Rates	The MetroTAC wants to evaluate the possible impact to sewer rates and options as water use goes down and consequently the sewer flows go down, reducing sewer revenues. Sewer strengths are also increasing because of less water to dilute the waste. We are currently monitoring the effects of this. 2/2011: wastewater revenues are declining due to conservation and flow reductions and agencies are re-prioritizing projects to be able to cover annual operations costs	Eric Minicilli Bob Kennedy Karyn Keese

MetroTAC Items	Description	Subcommittee Member(s)
"No Drugs Down the Drain"	The state has initiated a program to reduce pharmaceuticals entering the wastewater flows. There have been a number of collection events within the region. The MetroTAC, working in association with the Southern California Alliance of Publicly-owned Treatment Works (SCAP), will continue to monitor proposed legislation and develop educational tools to be used to further reduce the amount of drugs disposed of into the sanitary sewer system. 8/2010: County Sheriff and Chula Vista have set up locations for people to drop off unwanted medications and drugs. 4/11: Local law enforcement has taken a proactive role and is sponsoring drug take back events. 3/11: TAC to prepare a position for the board to adopt; look for a regional solution; watch requirements to test/control drugs in wastewater. 10/26/11: A prescription drug take back day is scheduled for 10/29/11. Go to www.dea.gov to find your nearest location. 4/12: East County to host a prescription drug take back 4/28/12. 4/27/13 is scheduled to be a county wide take back day. Locations can be found on the DEA website.	Greg Humora
Strength Based Billing Evaluation	3/20/13: Brown and Caldwell presented their draft results to Metro TAC. This has been added as a standing item to the Metro TAC agenda for discussions on the recommendations.	
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. MetroTAC is exploring if a regional facility offers cost savings for the PAs. The PAs are also sharing information amongst each other for use in our individual programs. 3/11: get update on local progress and status of grease rendering plant near Coronado bridge	Eric Minicilli
Padre Dam Mass Balance Correction	11/11: Padre Dam has been overcharged for their sewage strengths since 1998. Staff from City of San Diego presented a draft spreadsheet entitled Master Summary Reconciliations Padre Dam Mass Balance Corrections Calculation. Rita Bell and Karyn Keese were elected to review the documentation and report back to Metro TAC. 2/12: Audit complete. Item added as Standing to Metro TAC agenda. 4/12: This issue is scheduled as a standing item and discussed at each Metro TAC meeting until it is resolved. Currently Metro TAC is focusing on the statue of limitations. 2/13: The PAs have received a joint letter from Padre Dam/City of San Diego. The PA's attorneys group continues to meet on this issue. 3/13: The attorney's group has requested an extension to 4/23/13 to respond to San Diego's letter. 5/13: <i>The attorney's group has submitted a letter to Padre Dam and San Diego.</i>	Rita Bell Karyn Keese
Waiver and Recycled Water Study Implementation	11/12: Metro TAC requested a timeline from City staff including milestones for the waiver process. The waiver is due no later than 7/30/15. However, the application needs to be submitted six months prior to the July date (2/1/15). Preparation of the waiver will begin in the early part of FYE 2014. 2/13: City staff has met to start coordination of the waiver process. Staff in attendance included Roger Bailey, Marsi Steirer, Guann Hwang, Steve Meyers, and Allan Langworthy. 5/13: <i>Scott Tulloch has briefed Metro TAC and the Metro Commission/JPA on the waiver's history and secondary equivalency. A JPA workshop to be held in June to further discuss. Scott Tulloch is preparing a briefing paper for the Commission's use. 6/13: JPA workshop held and PLWTP Steering Committee and Ad Hoc TAC were appointed.</i>	Greg Humora Leah Browder Scott Tulloch Karyn Keese
City of San Diego Recycled Water Pricing Study	San Diego is working on a rate study for pricing recycled water from the South Bay plant and the North City plant. Metro TAC, in addition to individual PAs, has been engaged in this process and has provided comments on drafts San Diego has produced. We are currently waiting for San Diego to promulgate a new draft which addresses the changes we have requested. 10/26/11: draft study still not issued. 5/13: <i>Recycled Water Study to be on July 2013 Metro TAC agenda per PUD staff. 6/24/13: Recycled Water Pricing Study goes to IROC. 7/10/13: Recycled Water Study goes to NR&C</i>	Karyn Keese Rita Bell

MetroTAC Items	Description	Subcommittee Member(s)
City of San Diego Revised Procurement Process	8/12: San Diego City Engineer James Nagelvoort reported on recent changes to San Diego's procurement process to move projects through more quickly. Technically any CIP projects under \$30 million may no longer need to be reviewed by the Metro TAC or JPA prior to City Council approval. Chairman Humora requested San Diego prepare a summary of the recent changes and the decision points for consideration of the TAC at the September meeting. 10/4: Metro Commission requests further review by TAC to recommend an appropriate level for CIP's to be brought forth to the Commission. 11/12: MetroTAC recommended leaving the thresholds as they are today and therefore everything will go through TAC and then to the JPA for formal action. The policy will be placed on the JPA website. The Metro Commission approved the policy at their November 2012 meeting. San Diego's CIP will become a standing item on the Metro TAC agenda.	Metro TAC
Salt Creek Diversion	9/2010: OWD, Chula Vista and San Diego met to discuss options and who will pay for project; Chula Vista and OWD are reviewing options. 2/2011: OWD and PBS&J reviewed calculations with PUD staff; San Diego to provide backup data for TAC to review. This option is also covered in the Recycle Water Study. 10/26/11: Back-up information has still not been received from staff. 8/12: San Diego to conduct business case evaluation and add to Capital Improvement Program as recommend by Metro Commission to San Diego City Council on July 17, 2012 in support of the Recycled Water Study.	Roberto Yano Bob Kennedy Karyn Keese Rita Bell
Recycled Water Study Cost Allocation	A small working group was formed to discuss options to allocate PLWTP offset project costs among the water and wastewater rate payers; Concepts will be discussed at TAC and JPA Board in near future. 7/12: Subcommittee to meet with PUD staff & consultants to review TM 8 and economic model. 8/12: Subcommittee has meet with City staff and consultants. Economic model has been received. City will not pursue cost allocations until Demonstration Project is complete due to staffing constraints. <i>6/13: Ad Hoc TAC has started work on cost allocation concept.</i>	Greg Humora Leah Browder Mark Watton Scott Tulloch Rick Hopkins Jim Smyth Karyn Keese
Board Members' Items		
<i>San Diego Wastewater 50th Anniversary Celebration</i>	<i>5/13: Cheryl Lester presented the draft plan for the Anniversary celebration. She requested Metro Commission/JPA participation. Commission Parks will represent the Commission/JPA.</i>	<i>Sherryl Parks</i>
Rate Case Items	1/12: San Diego is in the process of hiring a consultant to update their rate case. As part of that process, Metro TAC and the Finance Committee will be monitoring the City's proposals as they move forward. 6/12: San Diego hired Black & Veatch as their rate consultant. 2/13: Preliminary results were reported at the IROC Meeting of 2/19/13. Karyn Keese will be working with the IROC Finance Committee to review details. 3/13: Karyn Keese attended a joint workshop with IROC to review the draft revenue requirement for the Rate Case. 4/13: Next meeting with IROC on the rate case is 5/20/13. <i>5/13: Next special meeting with IROC is June 24, 2013. 6/13: San Diego is only moving forward with Water Rate Case due to needed rate increase. Wastewater does not appear to need a rate adjustment for two years.</i>	Karyn Keese
Exhibit E	Metro TAC and the Finance Committee are active and will monitor this process. Individual items related to Schedule E will come directly to the Board as they develop. 2/13: 2010 and 2011 audits are ongoing. 3/13: The 2010 audit is complete and has been presented to Metro TAC & the Finance Committee. Will move forward to Commission at 6/13 meeting. 2011 field work is complete. 2012 sample selected.	Karen Jassoy Karyn Keese

MetroTAC Items	Description	Subcommittee Member(s)
Future bonding	Metro TAC and the Finance Committee are active and will monitor this process. Individual items related to bonding efforts will come directly to the Board as they develop. 10/26/11: San Diego is issuing an RFP for a cost of service study to support a future bond issue potentially in mid-2013. Kristin Crane to sit on the selection panel. 2/13: San Diego's preliminary rate case does not show the issuance of additional debt until FY 2018.	Karen Jassoy Karyn Keese Kristen Crane
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
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. 2/12: This Item does not have a champion. Should we remove?	
SDG&E Rate Case	8/19: Karyn to check with Paula regarding latest SDG&E issues. 11/12: Sophie Akins from BBK will present updated information to Metro TAC.	Paula de Sousa
Metro JPA Strategic Plan	6/12: Chairman Ewin to establish a subcommittee to monitor the progress of strategic plan initiatives.	<i>Who should take over?</i>

Completed Items	Description	Subcommittee Member(s)
Debt Reserve and Operating Reserve Discussion	In March 2010, the JPA approved recommendations developed by Metro JPA Finance Committee, MetroTAC, and the City of San Diego regarding how the PA's will fund the operating reserve and debt financing. MetroTAC has prepared a policy document to memorialize this agreement. Project complete: 4/10	Scott Huth Karyn Keese Doug Wilson
State WDRs & WDR Communications Plan	The Waste Discharge Requirements (WDRs), a statewide requirement that became effective on May 2, 2006, requires all owners of a sewer collection system to prepare a Sewer System Management Plan (SSMP). Agencies' plans have been created. We will continue to work to meet state requirements, taking the opportunity to work together to create efficiencies in producing public outreach literature and implementing public programs. Project complete: 5/10. 2/12: State has proposed new WDR regulations. Metro TAC will not reopen but Dennis Davies will stay on top of the issue.	Dennis Davies
Ocean Maps from Scripps	Schedule a presentation on the Sea Level Rise research by either Dr. Emily Young, San Diego Foundation, or Karen Goodrich, Tijuana River National Estuarine Research Reserve Project complete: 5/10	Board Member Item
Secondary Waiver	The City of San Diego received approval from the Coastal Commission and now the Waiver is being processed by the EPA. The new 5 year waiver to operate the Point Loma Wastewater Treatment Plant at advanced primary went into effect August 1, 2010. Project complete 7/10	Scott Huth
Lateral Issues	Sewer laterals are owned by the property owners they serve, yet laterals often allow infiltration and roots to the main lines causing maintenance issues. As this is a common problem among PAs, the MetroTAC will gather statistics from national studies and develop solutions. 4/11: There has been no change to the issue. We will continue to track this item through SCAP and report back when the issue is active again. Efforts closed 3/11	Tom Howard Joe Smith
Advanced Water Purification Demonstration Project	San Diego engaged CDM to design/build/operate the project for the water repurification pilot program. 2/8/11: <i>Equipment arrived 3/2011; tours will be held when operational (June/July 2011 timeframe).</i> 2/12: Tours are available. San Diego whitepaper on IPR distributed to Metro TAC members. Closed 4/18/12	Al Lau
SDG&E Rate Case	SDG&E has filed Phase 2 of its General Rate Case, which proposes a new "Network Use Charge" which would charge net-energy metered customers for feeding renewable energy into the grid as well as using energy from the grid. The proposal will have a significant impact on entities with existing solar facilities, in some cases, increases their electricity costs by over 400%. Ultimately, the Network Use Charge will mean that renewable energy projects will no longer be as cost effective. SDG&E's proposal will damage the growth of renewable energy in San Diego County. A coalition of public agencies has formed to protest this rate proposal. 2/12: PUC has not accepted SDG&E's filing. Metro TAC move to close this item. Will continue to monitor this. 8/19: Karyn to check with Paula regarding latest SDG&E issues.	Paula de Sousa
Metro JPA Strategic Plan	2/2011: committee to meet 2/28/11 to plan for retreat to be held on 5/5/11 Retreat held and wrap up presented to the Commission at their June Meeting. JPA strategic planning committee to meet to update JPA Strategic Plan and prepare action items. 1/12: Draft strategic plan reviewed by Board and referred to Metro TAC for input. MetroTAC has created a subcommittee to work on this project. 2/12: Metro TAC has completed their final review. Forwarded to Commission. 4/12: Adopted at April 2012 Metro JPA Meeting. Project complete.	Augie Caires Ernie Ewin

Completed Items	Description	Subcommittee Member(s)
Recycled Water Study	As part of the secondary waiver process, San Diego agreed to perform a recycled water study within the Metro service area. That study is currently underway, and MetroTAC has representatives participating in the working groups. TM #8 Costs estimates are out and PAs provided comments on TM#8 and have asked for a technical briefing. 10/16/11: Final draft of report is due out in November 2011.1/12: Final draft of report is due in March 2012.3/12: Final draft available for comments until 3/19/12 4/12: PUD staff to give presentation to Metro JPA at their May meeting. 5/12 PUD staff presented the Recycled Water Study to the Metro JPA at their May meeting. Metro JPA approved the Study as a planning document. Study to move forward to SD City Council in July 2012 with letter of support from JPA. 7/12: City of San Diego approved the Recycled Water Study; Study submitted on time to Coastal Commission. Final report uploaded to JPA website.11/12: San Diego received a letter from the Coastal Commission. Metro Commission consensus was that based on the tone of the Coastal Commission letter the region may be seeing some time line changes relative to San Diego's projections on the implementation of IPR and that the MetroTAC needs to manage all aspects including the Coastal Commission and multiple issues such as desalination water, Coastal Commissions attitude at this point and pending IPR programs we have heard about.	Scott Huth Al Lau Scott Tulloch Karyn Keese
IRWMP	4:12: Metro TAC received a presentation from Cathy Pieroni (City of San Diego) on the Integrated Regional Water Management Program (IRWMP). Group is still relatively informal but plans to become more structured during its upcoming 2 year plan update. There is a governance & finance work group that starts in the 3rd quarter of 2012 and at that point the JPA role will be examined. Padre Dam and Chula Vista are regular participants. 9/19: Cathy Pieroni gave an update. Recommendation by IRWM to the RAC to include a seat for the Metro JPA. Bob Kennedy will attend the October 3, 2012 meeting representing the JPA. 11/12: At their November 2012 meeting the Metro Commission unanimously appointed Bob Kennedy of Otay Water District as primary and Metro TAC Chairman Greg Humora as alternate to the IRWMP RAC. 2/13: On February 6, 2013 Bob Kennedy attended the IRWMP meeting. Metro JPA has been added as a permanent member of the Water Quality subcommittee of the RAC. The City of San Diego presented an overview of the Recycled Water Study. Next meeting scheduled for April 3, 2013. Closed 4/12 as the Metro JPA has become a member.	Bob Kennedy Greg Humora
Role of Metro JPA regarding Recycled Water	As plans for water reuse unfold and projects are identified, Metro JPA's role must be defined with respect to water reuse and impacts to the various regional sewer treatment and conveyance facilities 2/12: Scott Huth removed as member due to new position. JPA/Metro TAC needs to appoint a new representative. 4/13: Scott Tulloch added to this subcommittee. Metro TAC member needed. 5/13: <i>Greg Humora added to this work group.6/13: This group was formalized by the JPA as the PLWTP Ad Hoc Technical Advisory Committee.</i>	Greg Humora Karyn Keese Scott Tulloch

San Diego Integrated Regional Water Management
Joint Public Workshop & Regional Advisory Committee Meeting #43
June 5, 2013

Background

The Regional Water Management Group for IRWM Program was established in 2005. This group is made up of Marsi Steirer for the City of San Diego, Troy Bankston for the County of San Diego, and Ken Weinberg of the Water Authority. This was Marsi Steirer's first meeting as Chair, Ken Weinberg is Co-Chair.

A year later, they established the Regional Advisory Committee (RAC) to assist the Regional Management Group with the original IRWM Plan and to assist on prioritization of Prop 50 funding application. The RAC is made up of 4 groups; Water Supply, Water Quality, Natural Resources and Watersheds, with the recent reorganization, they added the Metro JPA representative to the Water Quality Group. The RAC meet quarterly but the groups meet individually more often.

San Diego Integrated Regional Water Management (IRWM) UPDATE

At the Regional Advisory Committee meeting of June 5, 2013, the proposed revision to the IRWM Plan Update for the last workgroup was presented. Proposed modifications to the section on Integrated Flood Management Planning Study and implementation action items were discussed.

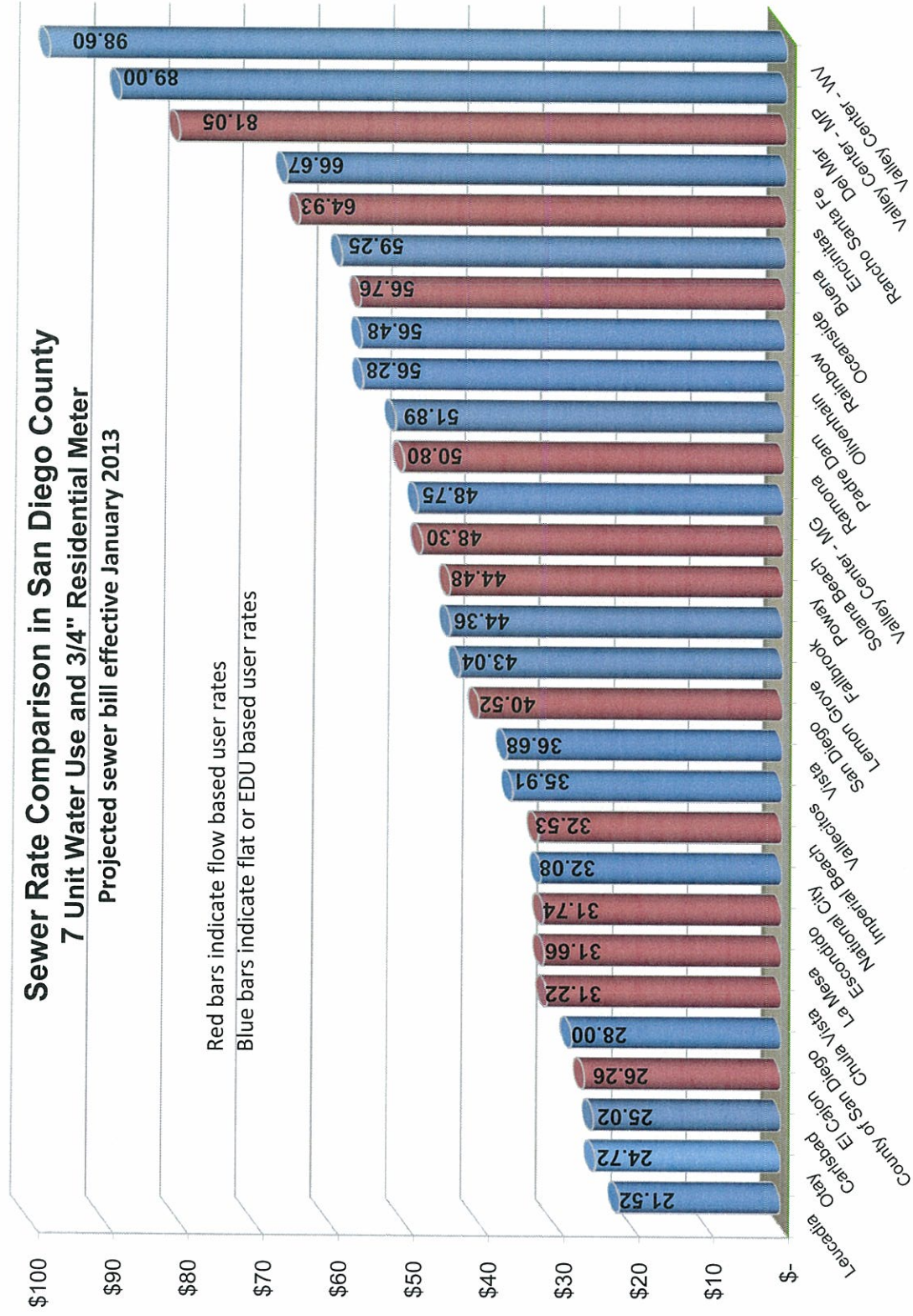
The draft IRWM Plan will go out for public review on June 20 with final comments due by July 31, 2013. The plan is scheduled to be adopted by October 31, 2013. The draft is available at:

<http://www.sdirwmp.org/2013-irwm-plan-update-workgroups>

Next meeting scheduled for August 7, 2013.

Sewer Rate Comparison in San Diego County **7 Unit Water Use and 3/4" Residential Meter** **Projected sewer bill effective January 2013**

Red bars indicate flow based user rates
 Blue bars indicate flat or EDU based user rates



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

Updated 11/2012

EXP

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		
Lemon Grove	Mike James		
National City	Joe Smith		
Coronado	Godby, Kim		
Otay Water District	Bob Kennedy	Strategic Planning (Volunteered, participated last year)	01/2013
Del Mar	Eric Minicilli		
Padre Dam	Al Lau		
El Cajon	Dennis Davies		
Lemon Grove	Patrick Lund		
National City	Joe Smith		
Coronado	Scott Huth		
Otay Water District	Bob Kennedy		
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