



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, October 19, 2016

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

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

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

1. Review and Approve MetroTAC Action Minutes for the Meeting of [September 21, 2016](#) (**Attachment**)
2. Metro Commission/JPA Board Meeting Recap (Standing Item)
3. **PRESENTATION - ACTION:** Presentation on AB 1826 and Consideration and Possible Action to Recommend the Metro Comm/Metro Wastewater JPA Send a Letter Supporting Restricting Food Liquefiers. (Ana Carvalho, City of San Diego Environmental Specialist, representative for the Regional's TAC Organic sub-committee) (**Attachment**)
4. **REPORT:** Update from Regional Wastewater Disposal Agreement Flow Commitment Working Group (Yazmin Arellanos)
5. **REPORT:** Update from Social Media Working Group (Mike Obermiller)
6. **REPORT:** Update from Sample Rejection Protocol Working Group
7. **ACTION:** Consideration and Possible Action to Recommend the Metro Comm/Metro Wastewater JPA Approve and Award a Contract for the Removal, Cleaning, and De-Watering Solids from Digesters at Point Loma Wastewater Treatment Plant (Albert Sohikish) (**Attachment**)
8. **REPORT:** Wastewater Flow Diagrams – North City Operational Strategy – Addition of Morena Pump Station (John Helminski/Amer Barhoumi) (**Attachment**)
9. **ACTION:** Consideration and Possible Action to Recommend the Metro Comm/Metro Wastewater JPA Approve an Agreement with AECOM for Design Engineering Services for Morena Pump Station and Conveyance System (John Helminski/Wendy Gamboa) (**Attachment**)
10. **ACTION:** Consideration and Possible Action to Recommend the Metro Comm/Metro Wastewater JPA Approve an Agreement with CH2M Hill Engineers, Inc. for Design Engineering Services for the North City Water Reclamation Plant Expansion and Influent Conveyance Project (John Helminski/Amy Dorman) (**Attachment**)

11. **ACTION:** Consideration and Possible Action to Recommend the Metro Comm/Metro Wastewater JPA Approve an Amendment to the Sole Source Agreement for Special Council for Hawkins Delafield and Wood (HDW) to Provide Specialized Legal Services for the Landfill Gas, Cogeneration and Biosolids Management Facilities and Services Project. (John Helminski/Fritz Ortlieb) (**Attachment**)
12. **OVERVIEW/ACTION:** MWH Task Order Overview and Consideration and Possible Action to Recommend the Metro Comm/Metro Wastewater JPA Approve Amendment No. 1 to the As-Needed Engineering Technical Services Consultant Agreement with Montgomery Watson Harza (MWH) Americas, Inc., for the Pure Water San Diego Program (John Helminski/Julie Labonte) (**Attachment**)
13. Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung) (**Attachment**)
14. Financial Update (Standing Item) (Karyn Keese)
15. IRWMP Update (Standing Item) (Bob Kennedy)
16. MetroTAC Work Plan (Standing Item) (Greg Humora) (**Attachment**)
17. Point Loma Permit Renewal (Standing Item) (Greg Humora) (**Attachment**)
18. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Special Meeting (**October 20, 2016**) and Regular Meeting (**November 3, 2016**)
19. Other Business of Metro TAC
20. Adjournment ([To the next Regular Meeting November 16, 2016](#))

<u>Metro TAC 2016 Meeting Schedule</u>		
January 20	May 18	September 21
February 17	June 15	October 19
March 16	July 20	November 16
April 20	August 17	December 21

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

Attachment 1

Action Minutes of

September 21, 2016

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

ACTION MINUTES

DATE OF MEETING: September 21, 2016

TIME: 11:00 AM

LOCATION: MOC II Auditorium

MEETING ATTENDANCE:

Greg Humora, La Mesa
Roberto Yano, Chula Vista
Ed Walton, Coronado
Eric Minicilli, Del Mar
Yazmin Arellano, El Cajon
Dennis Davies, El Cajon
Chris Helmer, Imperial Beach
Erin Bullers, La Mesa
Mike James, Lemon Grove
Dexter Wilson, Lemon Grove
Steve Beepler, Otay MWD
Mark Niemiec, Padre Dam
Al Lau, Padre Dam
Seval Sen, Padre Dam
Mike Obermiller, Poway
Alexander Heide, Poway
Terry Zaragoza, City of Poway
Dan Brogadir, County of San Diego
Collins Solomon, County of San Diego

Amy Dorman, City of San Diego
Lee Ann Jones-Santos, City of San Diego
Seth Gates, City of San Diego
John Helminski, City of San Diego
Edgar Patino, City of SD
Tung Phung, City of San Diego

Timothy Waters, Kennedy/Janks

Scott Tulloch, Atkins
Karyn Keese, The Keze Group, LLC
James Peasley, Metro Comm/Metro JPA Chair
Lori Anne Peoples, Metro Comm/Metro JPA/MetroTAC

1. Review and Approve MetroTAC Action Minutes for the Meeting of August 17, 2016

Dennis Davies moved approval of the August 17, 2016 minutes. The motion was seconded by Mike James and the minutes were approved unanimously.

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

Chair Humora stated that the JPA had approved the SCCWRP 9th Amendment and the schedule of allocation for billing to Metropolitan Wastewater utility and Independent Auditors Report (Exhibit E Audit) for Fiscal Year 2014.

3. INFORMATION: Letter Sent to City of San Diego from Metro Wastewater JPA Requesting to be Added to the Mailing List for All CEQA and Brown Act Meeting Notices Related to the Pure Water Program

Chair Humora stated that this was a letter drafted by General Counsel at BBK, signed by the Metro JPA Chair and sent to the City of San Diego to keep us in the loop on items pertaining to the Pure Water Program.

4. PRESENTATION/ACTION: Presentation on AB 1826 and Consideration and Possible Action to Send a Letter Supporting Restricting Food Liquefiers

John Helminski stated that it was not so much the use of food liquefiers, but opposition to connection to the sewer system. John will see that a presentation is brought back for consideration on the next agenda.

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

The Group is investigating ways to handle existing debt that was issued to construct South Bay and North City and new debt between now and then if an agency off-loads some of their flows. Leaving the system is one issue, flow changes is another. A study may be needed before new debt is issued. This study would take a current look at updating what each agencies capacity rights should be in the regional agreement. The group is trying to explore how to handle new debt moving forward. Del Mar will give a presentation at the next TAC meeting on their project.

6. REPORT: Update from Social Media Working Group

Alex Heide provided a brief verbal update noting that the DRAFT policy had been approved by TAC and that the group had requested and received quotes to contract the task out which ranged from \$900-\$950 per month. The next step was to take the DRAFT policy to the JPA for their input and action. It was requested that the staff report to the Commission include a table showing each JPA members annual financial commitment if a consultant is hired. Karyn Keese will provide.

7. Metro Wastewater Update (Standing Item)

There was none.

- 8. Pure Water Program Update:**
- A. Pure Water Program (John Helminski)**
 - i) Potable Reuse Regulatory Framework**
 - ii) Project Delivery, Schedule & Miramar Decision**
 - iii) Ongoing Research and Testing**
 - iv) Co-Generation/Bio Solids**
 - v) Operator Readiness**
 - vi) Point Loma Permit**
 - vii) Public Outreach**

John Helminski provided a Power Point presentation.

The presentation included a regulations timeline for surface water augmentation regulations and direct potable reuse feasibility; regulatory opportunity; North City project IPR SWA-IPR w/approval – the gap – DPR; project delivery, Miramar project feasibility studies; Pure Water phase 1 projects; Miramar decision factors; outstanding questions; Phase 1 schedule; landfill gas, cogeneration and biosolids management facilities and services project; four fundamental questions to address; ongoing research and testing; operator readiness; Pt. Loma Permit update; Quarter 2 outreach metrics; youth engagement, multicultural community engagement, Global Water Award; and questions.

John Helminski further elaborated during the presentation that a year ago June, validation workshops had been held and costs were reviewed for So. Bay versus 15 mgd at North City. The initial assumption was that the Morena Pump Station was not going to be required for Phase 1 of the program. The validation review determined that they would have to build the pump station and pipeline to achieve the first 15 MGD for Phase 1 due to water conservation and that doing the full 30 mgd was more cost effective then splitting the other 15 MGD to South Bay later in a Phase 2. They estimated it would be \$347M more to build Phase 1 North City plus 15 mgd So. Bay. Thus, it was felt that the most cost effective options was to build all at once. When they started meetings with DDW this year, they received clarity that Miramar was preferred in April of 2016. The validation workshops were open to all.

Dexter Wilson inquired as to when the costs were reviewed, was a determination made of benefits to water vs. wastewater as costs have shifted from outer years (substantial \$) to wastewater.

Scott Tulloch responded that his recollection was the City of San Diego looked at not moving Morena forward but the agreement with the Environmental groups for 15 MGD in Phase I and permit force the issue due to the reduction in wastewater flows because of water conservation.

Jim Peasley stated that the Metro Commission supported the 15 mgd but now at 30 mgd and it brings a significant cost sooner than in the past and inquired as to whether or not the City of San Diego had approached the environmental community to inquire if they could go less. He stated he would like to see a fiscal year

breakdowns with move ups and a comparison between 15 mgd and 30 mgd.

Lee Ann stated she had started discussion with San Diego Assistant City Attorney Tom Zeleny on alternatives for the PA financing. The JPA can issue debt outside of the City of San Diego also and rating impacts are being reviewed.

John Helminski continued noting that by going to Morena, they would be able to keep the pipeline in the public right of way with 4 easements vs. acquiring 40 easements through environmentally sensitive habitat. Capital costs of 15 mgd vs. 30 mgd are not much different and also operation savings of \$1M a year vs. San Vicente. The San Diego Mayor and City Council have been briefed.

Inquiry was made of when Pure Water proceeds, what happens with Pt. Loma, the PA's don't want to have to pay to go to secondary also and at this point there are no assurances that San Diego will achieve secondary equivalency legislation.

Karyn Keese noted that on the Morena Pump Station and Pipeline cost schedule attached to AECOM's contract that the bid does not clearly break out water vs. wastewater costs and requested in the future, all bids break them out especially soft costs. Lee Ann stated she would check into this and provide a breakdown.

With regards to Biosolids, John Helminski stated that they are still working on this and looking at 15 mgd, location to site etc. Brown & Caldwell is updating their studies regarding technology or legislation that has come forward and other options for trucking etc. The study should wrap up in mid-October.

John Helminski stated that regarding operator readiness, required by Title 22, the City is in discussion with Cuyamaca College regarding the establishment of a training program.

On the Pt. Loma Permit, Alan Langworthy is working for the City of San Diego with the EPA and Regional Board and has spent time educating them on how modified permits have been done in the past.

There will be an open house on Saturday, October 22 from 10 am to 3 pm at the North City Water Reclamation Plant. There will be a tour of the facility, a taste of the purified water, a visit to the waterwise garden and activities for the kids. He will send the flyer to the secretary to forward to the MetroTAC members as well as the JPA.

Chair Humora requested that an additional slide be prepared and included in the presentation prior to it going to the Metro Commission/Metro Wastewater JPA. The slide to include a timeline from November of 2014 outlining Pure Water program facility decision making process.

B. Schedule of Pure Water Updates (Lee Ann Jones-Santos)

Lee Ann Jones-Santos included a copy of the Pure Water update dates that had been presented at the last Metro JPA meeting.

C. Annual Planning Estimates and Pure Water Phase I Cost Allocation (Lee Ann Jones-Santos)

Lee Ann Jones-Santos stated that she and Karyn Keese were spending time this month going through the details.

Scott Tulloch stated that their group went through this for a year looking at it as a package and agreed to cost allocations and revenue sharing. However, if not looking at both, it should be done over again.

Jim Peasley stated that with regard to the benefit side, water produced needs to be discussed with PA's, some agencies are water/sewer, some water only, and they need to have discussion on this. It was noted by Lee Ann that both Greg and Scott had met with Halla on this.

Dexter Wilson noted that the projections and expenditures and SRF fundings seemed out of sync and inquired as to whether the amounts could go up. Lee Ann noted that there was a chance the numbers could go up in FY 19-20 and that the City of San Diego was being aggressive with grants and funding to make it less of an impact on the rate payers. Dexter then stated that with Prop 26, Lemon Grove being wastewater only is concerned with secondary equivalency and inquired if it was possible to get legislation this fiscal year because in fiscal year 2017-2018 it will cost more.

D. Program EIR Update (Keli Balo)

Keli Balo provided a verbal overview of the Power Point presentation and explained that there were only 16 official comment letters received from agencies, community groups and citizens. The EIR will be going to the Environmental Committee on October 12th and to the full San Diego City Council on October 25th.

E. Amendment to Sole Source Agreement for Special Council for Hawkins Delafield and Wood (HDW) (Lubna Arikat/John Helminski)

John Helminski stated that this item had been pulled.

9. Metro Capital Improvement Program and Funding Sources (Standing Item)

Tung Phung stated he had just received the projected expenditures and will bring back a report to the next meeting.

10. Financial Update (Standing Item)

Karyn Keese stated that the FY 2014 Exhibit E Audit had just been approved and that FY 2015 is moving rapidly and they expect to have it finalized in 2 months. They are working also on FY 2016 and hope to be current on all by the end of this year.

11. IRWMP Report (Standing Item)

None.

12. MetroTAC Work Plan (Standing Item)

Chair Humora stated that the work plan was attached to the agenda and the Rotation Schedule portion had been updated. He requested people get sewer rates to Karyn for inclusion in the next report.

13. Point Loma Permit Renewal (Standing Item)

Chairman Humora stated that the report was attached and he had nothing additional to add.

14. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (September 1, 2016)

Chair Humora stated that the Pure Water Program Update would be going forward with the additionally requested slide.

John Helminski stated he had a disc with the EIR on it for anyone who was interested in having one.

15. Other Business of Metro TAC

None.

16. Adjournment to the next Regular Meeting, August 17, 2015

At 1:25 the meeting was adjourned.

Attachment 3
Presentation on
AB1826 Food
Liquefiers

“SD PUD is currently in the process of assessing the impact of liquefied organic (food) waste discharges into the City’s sewer system, including the various ways these newly-introduced waste constituents could impact existing treatment infrastructure and planned future investments. PUD is also determining whether our current permitting process allows for discharges of the type and volume that these applicants may request in the event that they partner with vendors for processing services.”

Attachment 7
Contract to MP
Environmental
Services for
Removal, Cleaning &
De-Watering Solids
from Digesters

+METRO JPA/TAC**Staff Report****Date: 9/27/16**

Project Title: Remove, Clean, and De-water Solids from Digesters at Point Loma Wastewater Treatment Plant.

Requested Action: Approval to award a Service Contract to the MP Environmental Services Inc. for cleaning, hauling, and disposing of approximately 3.4 million gallons of residuals from Digesters S1/S2/7 at the Point Loma Wastewater Treatment Plant (PLWTP).

Recommendations:

Metro TAC:

IROC:

Prior Actions:

(Committee/Commission,
Date, Result)

Fiscal Impact: The total estimated cost for this contract is \$2,269,522. Funds are available in FY17 Metro Sewer Utility Fund 700001.

Is this projected budgeted? Yes ☒ No ☐Cost breakdown between
Metro & Muni: \$2,269,522 (Metro)Fiscal impact to the Metro
JPA: \$760,290 (33.5% Metro JPA)**Capital Improvement Program:**New Project? Yes ☐ No ☒ (Maintenance) N/A ☐Existing Project? Yes ☒ No ☐ Upgrade/addition ☐ Change ☐**Previous TAC/JPA Action:** N/A

Additional/Future Action: Digesters at Point Loma Wastewater Treatment Facility require to be cleaned every 5 to 8 years to remove accumulated solids (sludge).

City Council Action: No Council action is required since this is a Service Contract and the amount is less than \$3 million.

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

The Point Loma digesters S1, S2 and 7 are reaching their capacity due to the accumulated solids over the years from the treatment process. The solids/sludge need to be removed in order to enhance the treatment process, improve the mixing of the sludge, increase the working volume and reduce energy costs.

This action is to award the contract to MP Environmental Services Inc., which has been selected through the City's competitive bidding process. The total estimated cost for this project is \$2,269,522 which includes \$1,891,268 for construction and \$378,254 for project administration and contingency.

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

The bid by MP Environmental is determined responsive and \$1,336,678.50 less than the second bid. The selected Contractor will use advanced equipment and machineries to remove, clean and dewater the solids/sludge from the digesters for disposal to the landfill.

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

Bid opening was held on September 6, 2016, and there were two bids: 1) MP Environmental Services Inc. at \$1,891,268, and 2) American Process Group Inc. at \$3,227,946.50. MP Environmental Services Inc. was selected as the lowest responsive bidder at \$1,891,268.

Attachment 8

Wastewater Flow
Diagrams - No. City
Operational Strategy
– Addition of Morena
Pump Station

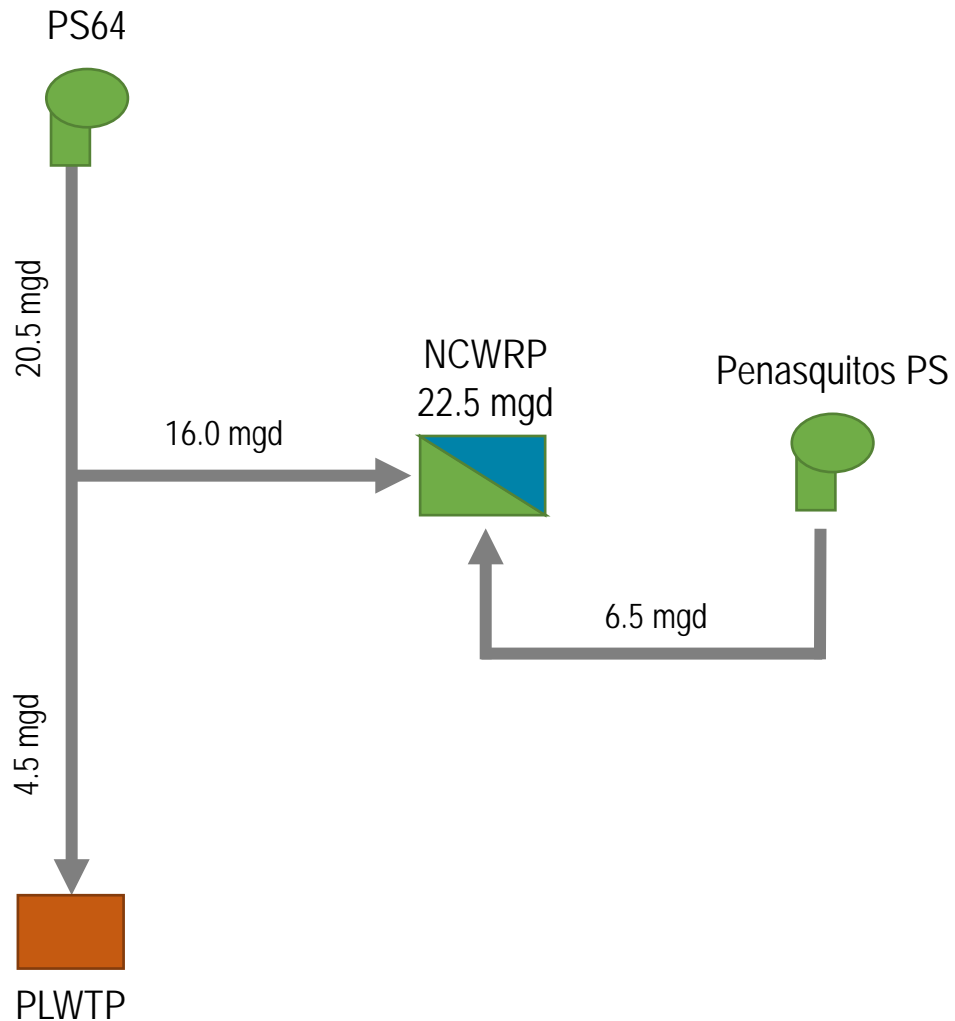
Public Utilities Department

NORTH CITY OPERATIONAL STRATEGY

Addition of Morena Pump Station

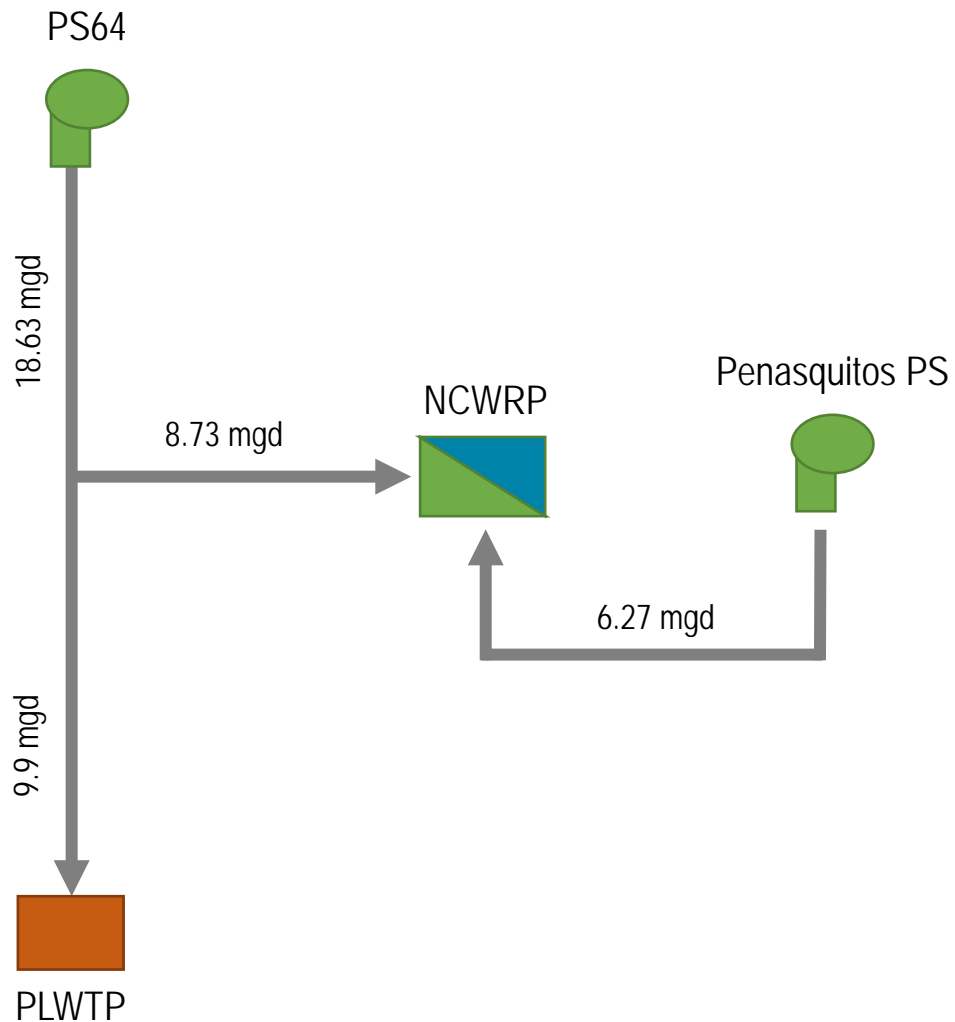
Metro Technical Advisory Committee
October 19, 2016

PAST OPERATIONAL STRATEGY



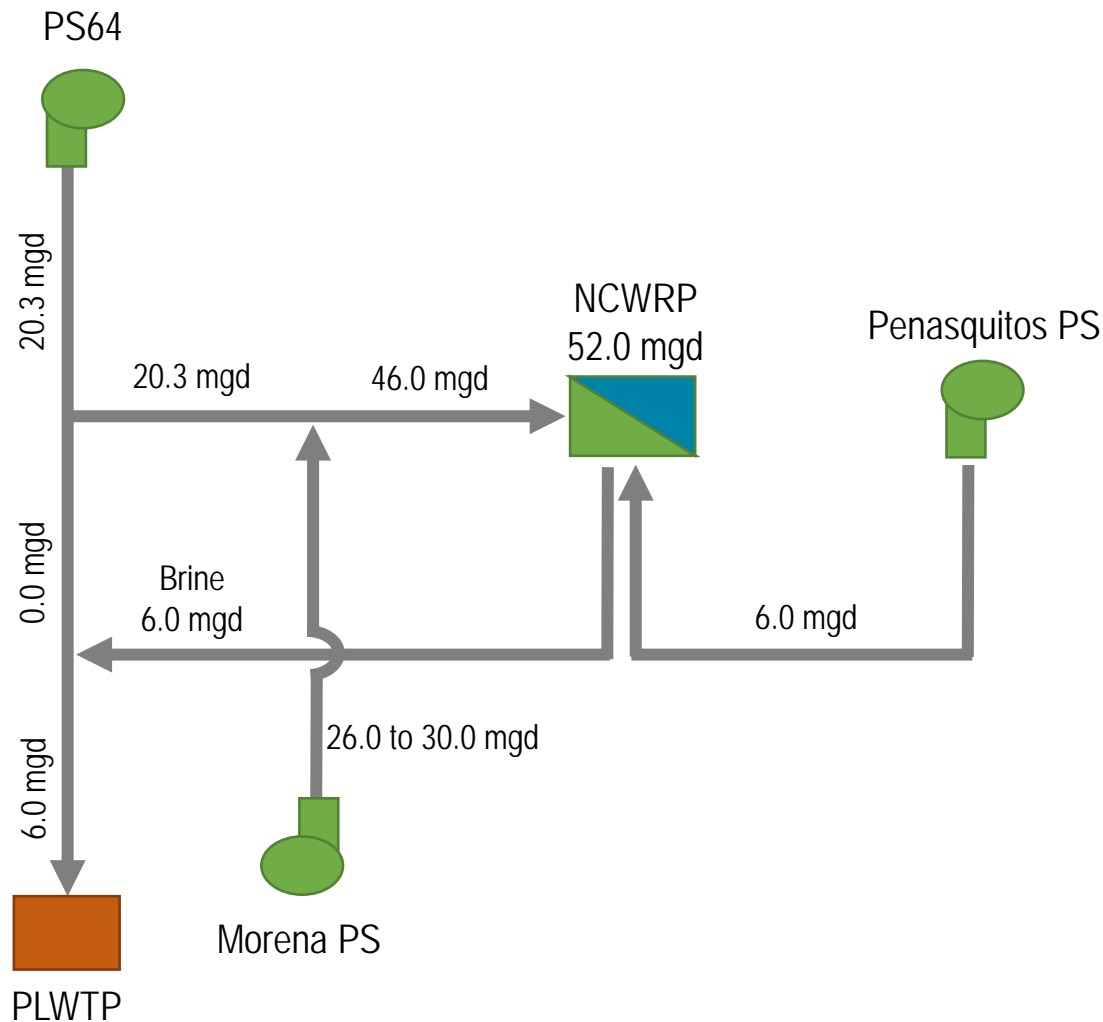
- PS64 Flow= 20.5 mgd
- PQPS Flow=6.5 mgd
- Total NCWRP=22.5 mgd
- NCWRP flow Based on 75% of 30 mgd, originally assumed dictated by grant condition
- Return Flows from NCWRP to PLWTP are not shown in schematic

CURRENT OPERATIONAL STRATEGY



- Grant Condition no longer applies
- Treat Minimum to meet NPR Demands
- Return remaining flows to PLWTP
- Return Flows from NCWRP to PLWTP are not shown in schematic

FUTURE OPERATIONAL STRATEGY



- Treat all flows from PS64 & PQPS.
- Intercept additional flows at Morena and redirect to North City Water Reclamation Plant

Questions



Attachment 9

Agreement with AECOM

METRO JPA/TAC
Staff Report
Date:

Project Title:

Morena Pump Station and Conveyance System

Requested Action:

Approve the design engineering services agreement between the City of San Diego and AECOM for Morena Pump Station and Conveyance System to City Council for approval.

Recommendations:

Approve the contract request.

Metro TAC:

This item was presented to the TAC committee on August 17, 2016 and a request made for more Pure Water program information.

IROC:

N/A

Prior Actions:
(Committee/Commission,
Date, Result)

This action was approved at Environmental Committee on September 15, 2016.

Fiscal Impact:

Is this projected budgeted? Yes X No ____

Cost breakdown between
Metro & Muni:

It is estimated that the funding will be allocated as follows:
Water: 43% (approximately \$6.8 million), Wastewater: 57%
(approximately \$9.1 million) Metro: 100%, Muni: 0%).
The total contract amount is \$15,875,255.00.

Fiscal impact to the Metro
JPA:

33.5% of Metro cost (approximately \$3 million).

Capital Improvement Program:

New Project? Yes X No ____ N/A ____

Existing Project? Yes ____ No X Upgrade/addition ____ Change ____

Previous TAC/JPA Action:

This item was presented to the TAC committee on August 17, 2016 and a request made for more Pure Water program information.

Additional/Future Action:

City Council Action:

City Council approval of the proposed agreement is anticipated on October 25, 2016.

Background: *Provide background information on the need for the project*
See discussion below.

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

San Diego's imported water supplies face increasing stresses from a variety of sources. As a result, the region's supplies are becoming less reliable and more expensive. These circumstances, and the threat limitation on San Diego's water supplies, have intensified the need for new sources of water. Pure Water San Diego is the City of San Diego's (City) 20-year program to provide a safe, secure and sustainable local drinking water supply for San Diego. Recycled water will be turned into drinkable water through the use of water purification technology. Further, Pure Water's system-wide reuse will significantly reduce flows to the Point Loma Wastewater Treatment Plant and will make San Diego more water independent. On April 29, 2014, City Council adopted Resolution Number R-308906 supporting the Pure Water Program.

Pure Water implementation includes design and construction of new treatment and conveyance facilities. To ensure quality design and construction of future Pure Water facilities, the Public Utilities Department has elected to obtain professional engineering and technical services for completing the design work.

One of the projects that is proposed under the Pure Water Program is the Morena Pump Station and Conveyance System (MPS). This system will take wastewater from Morena Blvd. near Friars Road and pump it approximately 11 miles north, to the North City Water Reclamation Plant (NCWRP) via a new 48-inch sewer force main. The additional wastewater is needed by the NCWRP to support both recycled water customer demands, and to provide tertiary -treated water to the future North City Pure Water Facility. Brine, a byproduct of the purification process, will then be conveyed approximately 11 miles back to the North Mission Valley Interceptor Sewer on Friars Road, via a 24-inch pipeline.

The MPS project also includes approximately 3.5 miles of new 36-inch transmission water mains to create system redundancy, and replacement of approximately 3.7 miles of existing 16-inch cast iron and asbestos cement distribution water mains. These water main replacements are part of the Water CIP – for coordination purposes and minimizing community disruptions along Morena Blvd, their design and construction are being bundled with the design and construction of Pure Water facilities.

In February 2016, the Public Utilities Department requested proposals from qualified firms for the Design Engineering services for the MPS. In March 2016, a total of five (5) firms submitted proposals pursuant to the Request for Proposal. Subsequently, all five (5) firms were invited to participate in the interview process. In April 2016, the Selection Panel interviewed the five (5) firms. Based on the selection rating criteria, AECOM was selected as the most qualified firm.

The proposed design engineering services for the MPS agreement with AECOM has a total not to exceed amount of \$15,875,255 for a duration of five (5) years.

Project Schedule: The table below presents the anticipated schedule.

Activity	Date
Metro JPA/ Metro Commission	10/20/2016
City Council Approval	10/25/2016

Bid Results: *If bidding was done provide bidding format and results*
Not Applicable.

Public Utilities Department
Pure Water Division

Agreement with AECOM for Design Engineering Services for Morena Pump Station and Conveyance System

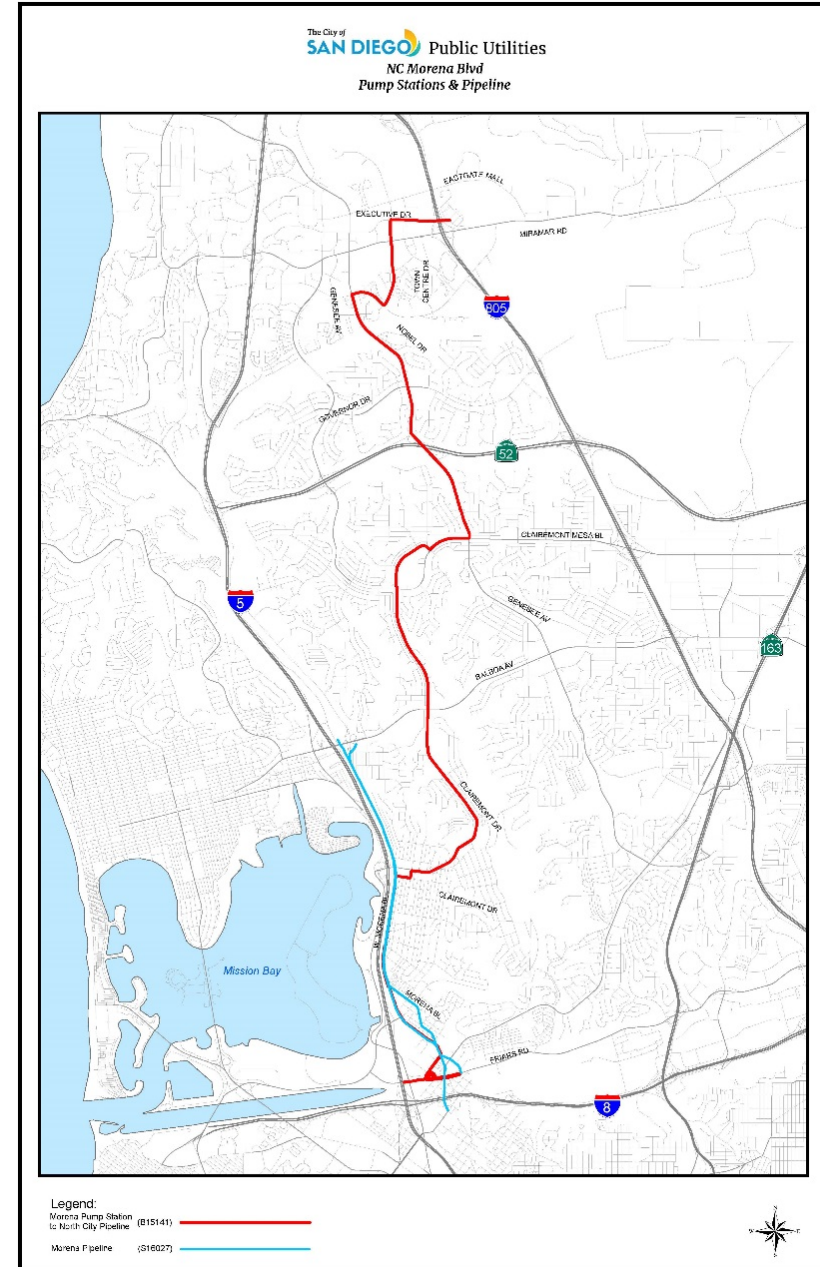
Metro Technical Advisory Committee
October 19, 2016

Project Purpose

- Component of North City Pure Water Phase 1
- Convey additional wastewater to the expanded North City Water Reclamation Plant
- Support Pure Water Phase 1 delivery of 30 mgd

Project Scope & Location

- Pure Water Facilities
 - 32-mgd Morena Pump Station, east of I-5 near Morena Boulevard
 - 48-inch wastewater force main
 - 24-inch brine conveyance
- Water CIP Improvements
 - Within same right-of-way as Pure Water pipelines
 - Bundled with Pure Water pipelines to ensure design coordination and cost savings



Selection Process and Contract Terms

- February 2016, Request for Proposal (RFP) advertised
- Five firms submitted proposals, all five firms interviewed
- AECOM was selected as the most highly qualified firm
- Total contract amount: \$15,875,255
 - Metro-funded amount: \$9,071,777
 - Water-funded amount: \$6,803,478
- Contract duration: 5 years
- Requested action: Recommend approval of this contract

Q&A



Attachment 10
Agreement with
CH2M Hill Engineers,
Inc.

METRO JPA/TAC
Staff Report
Date: 10/19/2016

Project Title:

Agreement with CH2M Hill Engineers, Inc. for Design Engineering Services for the North City Water Reclamation Plant Expansion and Influent Conveyance Project

Requested Action:

Approve design engineering services agreement between the City of San Diego and CH2M Hill Engineers, Inc. for the North City Water Reclamation Plant Expansion and Influent Conveyance Project and forward item to Metro JPA/ Metro Commission for approval.

Recommendations:

Approve the contract request

Metro TAC:	Forward the subject item to Metro JPA/ Metro Commission for approval.
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	The item was approved by the Environment Committee on October 12, 2016.

Fiscal Impact:

Is this projected budgeted?	Yes <u>X</u> No ____
Cost breakdown between Metro & Muni:	It is estimated that the funding will be allocated as follows: Water: 16% (approximately \$2.7 million), Wastewater: 84% (approximately \$14.5 million) (Metro: 100%, Muni: 0%). The total contract amount is \$17,198,752.
Fiscal impact to the Metro JPA:	33.5% of Metro cost (approximately \$4.8 million)

Capital Improvement Program:

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

Previous TAC/JPA Action:

None

Additional/Future Action:

Present the proposed agreement to Metro JPA/ Metro Commission on October 20, 2016 prior to City Council approval.

City Council Action:

City Council approval of the proposed agreement is anticipated on October 25, 2016.

Background:

Please view discussion below.

Discussion:

San Diego's imported water supplies face increasing stresses from a variety of sources. As a result, the region's supplies are becoming less reliable and more expensive. These circumstances, and the threat limitation on San Diego's water supplies, have intensified the need for new sources of water. Pure Water San Diego is the City of San Diego's 20-year program to provide a safe, secure, and sustainable local drinking water supply for San Diego. Recycled water will be turned into drinkable water through the use of water purification technology. Further, Pure Water's system-wide reuse will significantly reduce flows to the Point Loma Wastewater Treatment Plant and will make San Diego more water independent. On April 29, 2014, City Council adopted Resolution Number R-308906 supporting the Pure Water Program.

Pure Water implementation includes design and construction of new treatment and conveyance facilities. To ensure quality design and construction of future Pure Water facilities, the Public Utilities Department has elected to obtain professional engineering and technical services for completing the design work.

One of the projects that is being proposed under the Pure Water Program is the expansion of the existing North City Water Reclamation Plant (NCWRP). The NCWRP treats wastewater from several San Diego Communities and distributes recycled water for irrigation and industrial purposes in the northern San Diego region. As part of the Pure Water Program implementation, the NCWRP will be expanded so the facility can treat an average annual flow of 52 million gallons per day (mgd), continue serving recycled water customers, and provide tertiary-treated water to the future North City Pure Water Facility so it can produce 30 mgd of pure water. This project also includes the design of a pump station and pipeline (Influent Conveyance), which will be located at the NCWRP site and will convey tertiary-treated flows produced at the NCWRP to the future North City Pure Water Facility.

In March 2016, the Public Utilities Department requested proposals from qualified firms for the Civil Engineering Services for North City Water Reclamation Plant Expansion and Influent Conveyance contract. In April 2016, a total of two (2) firms submitted proposals pursuant to the Request for Proposal. Subsequently, the Department Selection Panel evaluated all the proposals and determined that a total of two (2) firms were highly qualified to participate in the interview process. In May 2016, the Selection Panel interviewed the two (2) firms. Based on the selection rating criteria, the Department selected CH2M Hill Engineers, Inc. as the most qualified firm.

The proposed design engineering services for the North City Water Reclamation Plant Expansion and Influent Conveyance agreement with CH2M Hill Engineers, Inc. has a total not to exceed amount of \$17,198,752 for a duration of five (5) years effective from the date of City Council's approval.

Project Schedule: The table below presents the anticipated schedule.

Activity	Date
Metro JPA/ Metro Commission	10/20/2016
City Council Approval	10/25/2016
Issue Notice to Proceed	11/2016

Bid Results: *If bidding was done provide bidding format and results*
Not applicable.

Public Utilities Department

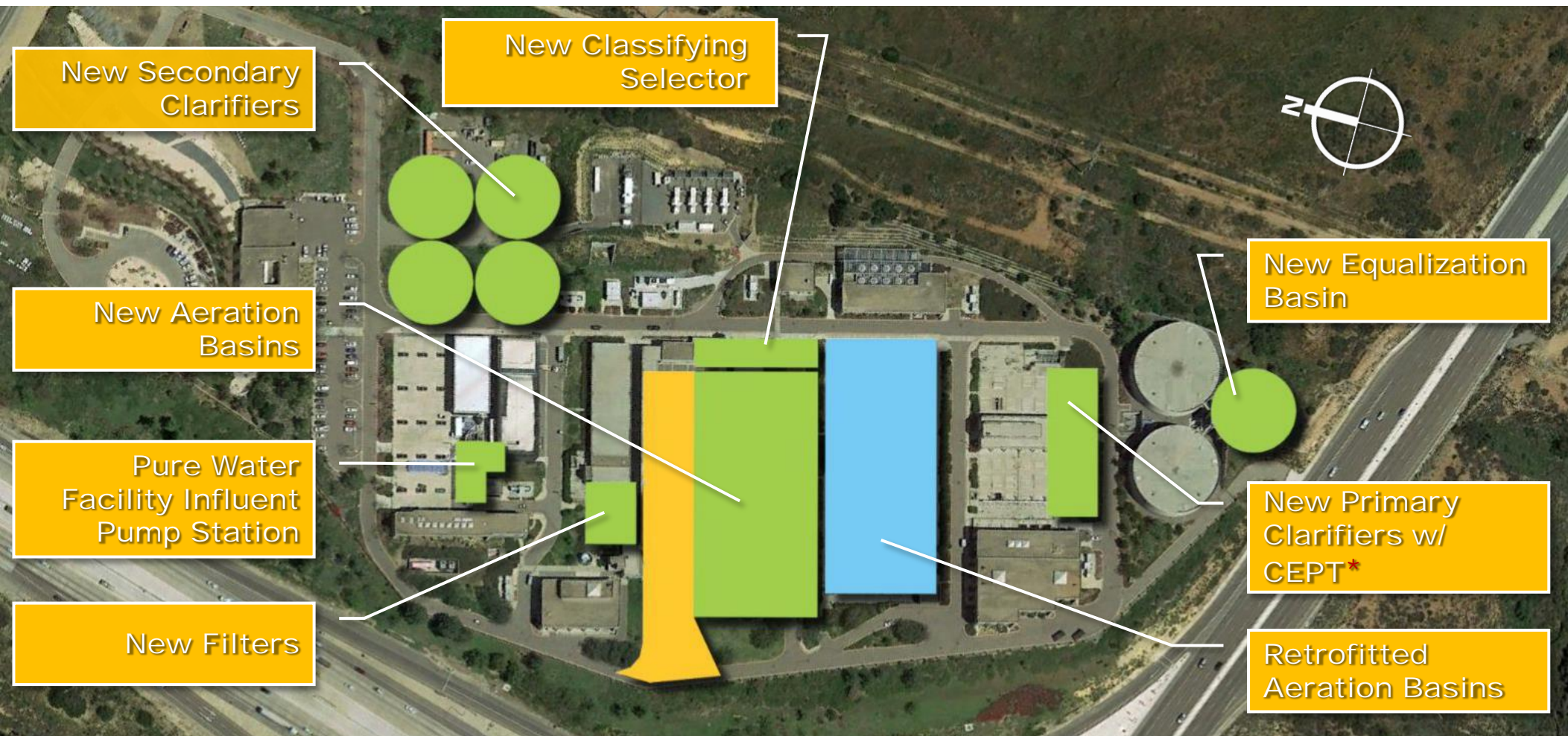
Agreement with CH2M Hill Engineers, Inc. for Design Engineering Services for the North City Water Reclamation Plant Expansion and Influent Conveyance Project

Metro Technical Advisory Committee
October 19, 2016

Project Objective/ Purpose

- ❖ Component of North City Phase 1 delivery of 30 mgd of Pure Water
- ❖ Increase treatment capacity of North City Water Reclamation Plant
- ❖ Convey tertiary-treated water to the future North City Pure Water Facility

NCWRP Aerial View - Proposed Upgrades



* CEPT-Chemically Enhanced Primary Treatment

Proposed Contract

- ❖ In March 2016, PUD advertised a Request for Proposal for design engineering services in support of the NCWRP Expansion and Influent Conveyance Project
- ❖ Two firms submitted proposals; both were interviewed
- ❖ CH2M Hill Engineers, Inc. was selected as the most highly qualified firm
- ❖ Total contract amount: \$17,198,752
- ❖ Contract duration: 5 years

Q & A



Attachment 11

Agreement with
Hawkins Delafield
and Wood

METRO JPA/TAC
Staff Report
Date: 10/19/2016

Project Title:

Amendment No. 1 to the Sole Source Agreement with Hawkins Delafield and Wood (HDW) to provide specialized legal services for the Landfill Gas, Cogeneration and Biosolids Management Facilities and Services Project.

Requested Action:

Request to forward Amendment No. 1 to the Sole Source Agreement between the City of San Diego and HDW for the Landfill Gas, Cogeneration and Biosolids Management Facilities and Services Project to the Metro JPA/ Metro Commission for approval.

Recommendations:

Approve the contract request

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

Fiscal Impact:

Is this projected budgeted?	Yes <u>X</u> No ____
Cost breakdown between Metro & Muni:	It is estimated that the funding will be allocated as follows: Water: 50% (\$495,000), Wastewater: 50% (\$495,000) (Metro: 100%, Muni: 0%). The total contract amount is \$990,000.
Fiscal impact to the Metro JPA:	33.5% of Metro cost (approximately \$165,825)

Capital Improvement Program:

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

Previous TAC/JPA Action:

None

Additional/Future Action:

Present the proposed agreement to Metro JPA/ Metro Commission on October 20, 2016 prior to City Council approval.

City Council Action:

City Council approval of the proposed agreement is anticipated on October 25, 2016.

Background:

Please view discussion below.

Discussion:

The project will provide considerable reduction in Greenhouse Gas (GHG), by capturing fugitive emissions from the landfill, to meet the City's Climate Action Plan target to reduce carbon gas emissions. The City will be able to produce renewable energy by utilizing landfill gas (LFG) and biogas from solid waste digesters, to generate electricity that supports the expansion of the North City Water Reclamation Plant (NCWRP), the North City Pure Water Facility (NCPWF), and expansion of biosolids production at the Metropolitan Biosolids Center (MBC), while providing significant cost savings to the City. In addition, the City and the U.S. Navy and Marine Corps wish to develop further cogeneration capacity from landfill gas. The project will also utilize waste heat from energy co-generation to improve biosolids processing from Class B to Class A for beneficial reuse. Additionally, the project will include the management and operation of the existing LFG collection system when "Gas Rights" return to the City on January 1, 2019.

The project will be developed using a Design/Build/Finance/Operate/Maintain (DBFOM) delivery method for the management, operation and expansion of the Miramar Landfill Gas Collection System on January 1, 2019; construction and operation of a Co-generation facility to generate up to 20MW of power utilizing landfill gas and biogas at MBC; construction and operation of an advanced biosolids handling facilities to produce Class A biosolids at MBC utilizing waste heat from the co-generators to increase digesters efficiency; and marketing and sale of Class A biosolids. The work sought by this retainer will yield a privately financed project that will result in avoided capital expenditures of an estimated \$300 million to \$400 million.

The DBFOM delivery method creates one point of responsibility for multiple services; transfers design risks; and assume construction, operation and maintenance responsibilities for the project. This method also provide cost savings with performance guarantees and shorter project schedule. The project is a 20-year Public-Private Partnership (P3) that will allow for public ownership and private financing.

The Public Utilities Department, in conjunction with the City Attorney's Office and the Environmental Services Department are in the process of preparing a Request For Statement of Qualification (RFSQ) to solicit qualified DBFOM entities, followed by a Request For Proposal (RFP) to demonstrate the qualified DBFOM entities' design, construction, financial, operational and maintenance capabilities for successful delivery of the project.

Due to the specialized nature of the project scope with multifaceted elements, magnitude, intricate legal and financial complexities of the Public-Private Partnerships; RFSQ/RFP development, proposal evaluation, service agreement preparation, contract negotiation and post-contract execution, the City Attorney's Office deemed special counsel necessary for the remaining contract duration. Hawkins Delafield and Wood (HDW) possesses an in-depth legal and economic understanding necessary for developing terms and conditions associated with complex 20-year services agreement, facilitation of Public-Private Partnerships (P3), which includes DBFOM delivery method for publicly owned facilities with private financing for the purpose of operating and maintaining an existing landfill collection system at Miramar Landfill on January 1, 2019; construction and operation of a Co-generation facility to generate up to 20 MW of power utilizing landfill gas and biogas at MBC; construct and operate an advanced biosolids handling facilities to produce Class A biosolids at MBC; and utilize waste heat from the co-generators to increase digesters efficiency; including the marketing and sale of Class A biosolids.

HDW will provide similar services to the City that it had provided in the negotiation and drafting of the original privatization agreement with NEO San Diego LLC (NEO SD), and Minnesota Methane San Diego LLC (MMSD) for the Miramar landfill gas collection system, and for the MBC and North City Cogeneration facilities. Both the NEO SD and MMSD facilities are currently owned by Fortistar Methane Group (Fortistar). The privatization agreement, originally entered into in 1995 yielded the ratepayers savings of over \$60 million in audited costs.

Additionally, HDW has assisted the City in negotiating the 2011 agreement amendment with Fortistar for the expansion of the landfill gas collection system to support development of a new 3.2 MW cogeneration facility for MCAS Miramar (through the Miramar Energy LLC). The term of the cogeneration agreement with Miramar Energy LLC runs through calendar year 2026.

Amendment No.1 is requested to increase the contract by \$990,000 for a total not to exceed amount of \$1,240,000. The additional funding will allow the City to continue to access the specialized legal services to support the Landfill Gas, Cogeneration and Biosolids Management Facilities and Services Project.

Project Schedule: The table below presents the anticipated schedule.

Activity	Date
Metro JPA/ Metro Commission	10/20/2016

Bid Results: *If bidding was done provide bidding format and results*
Not applicable.

Public Utilities Department

Amendment 1 to Sole Source Agreement with Hawkins Delafield and Wood (HDW) for Legal Consultant Services

Metro Technical Advisory Committee
October 19, 2016

Background

PUD in conjunction with the City Attorney's Office and Environmental Services Department retained Hawkins Delafield and Wood (HDW) for legal consultant services to:

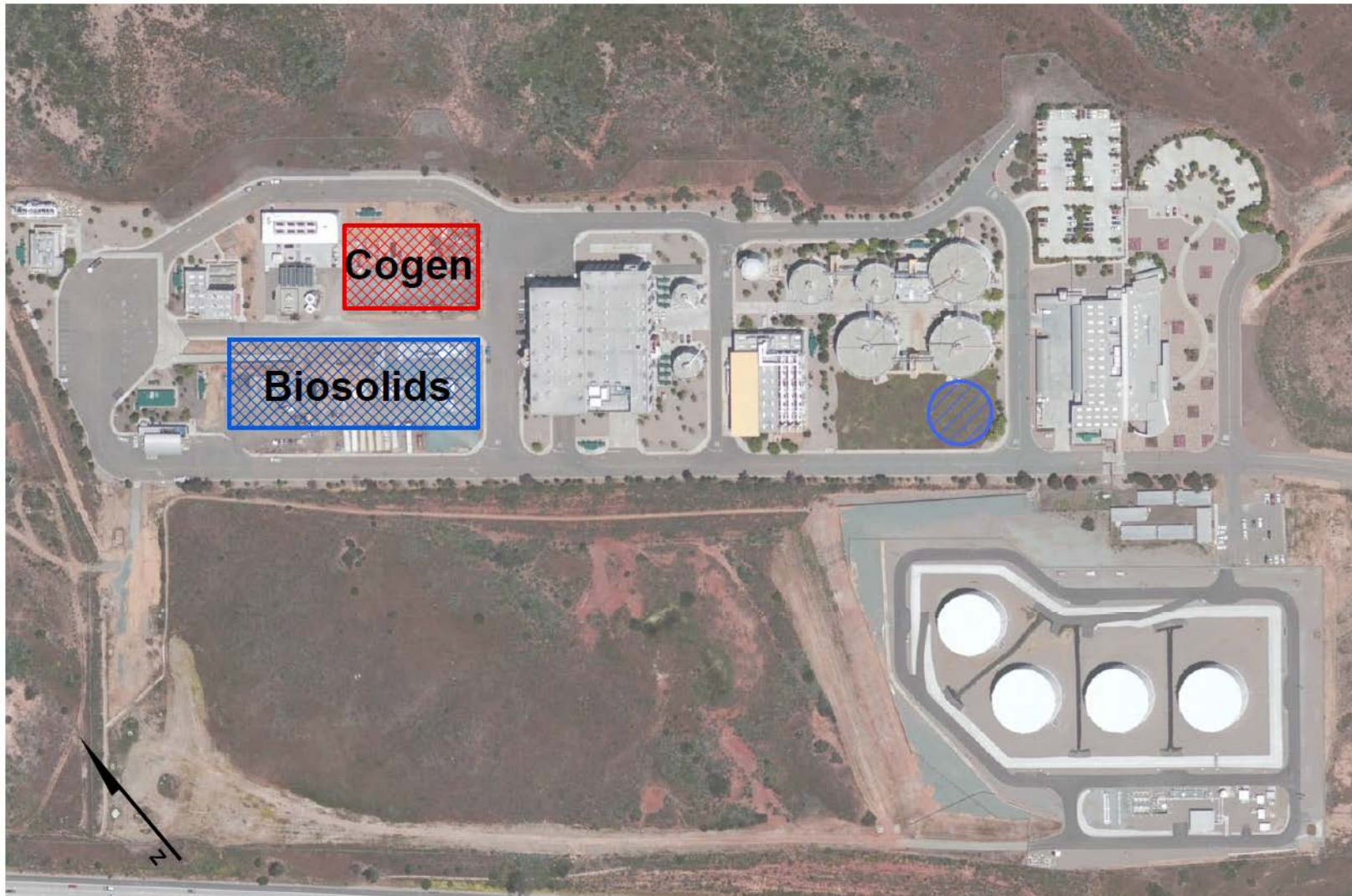
- ❖ Provide legal advice to the City on an energy generation agreement and subsequent amendments with Fortistar.
- ❖ Assist the City in developing a Request for Proposal (RFP) to:
 - Operate landfill gas collection system at Miramar Landfill after January 1, 2019
 - Expand landfill gas power production capacity at Metropolitan Biosolids Center (MBC) and North City Water Reclamation Plant (NCWRP)

Project Objective/Purpose

Provide specialized legal service:

- ❖ To develop a Service Agreement with a Private Partner
- ❖ Provide specialized legal services to develop an agreement to:
 - ❖ Operate and maintain an existing landfill collection system at Miramar Landfill after January 1, 2019
 - ❖ Design, build, finance, operate and maintain a cogeneration facility to produce renewable energy for Pure Water
 - ❖ Assess needs for advanced biosolids handling facilities to process Class A Biosolids, including marketing of materials
 - ❖ Design, build, finance, operate and maintain a cogeneration facility to produce 1.6 MW renewable energy for MCASM

Landfill Gas, Cogeneration and Biosolids Management Facilities and Services Project



HDW Contract – Previous Actions

- ❖ Approval of Sole Source Certification for original Contract on April 15, 2015
- ❖ Mayoral Action approved original Contract on July 14, 2015 for:
 - Contract Value: \$250,000
 - Contract Duration: 5 years
- ❖ Approval of Sole Source Certification for Amendment 1 on August 10, 2016

HDW Contract – Proposed Amendment and Work

- ❖ Increase contract value by \$990,000 for a total not-to-exceed amount of \$1,240,000, with no time extension
- ❖ Finalize Draft Request for Statement of Qualifications
- ❖ Develop RFP and Draft Service Agreement to include the following project components:
 - Cogeneration Facility for Pure Water
 - Biosolids Management Facilities
 - Operation and Maintenance Services
- ❖ Assist with Contract Negotiations
- ❖ Post-Contract Support for Services Agreement

Q & A



Attachment 12
MWH Task
Overview
and Amendment 1
to Agreement with
Montgomery
Watson Harza

Public Utilities Department

Pure Water Phase I Task Order Review

Metro Technical Advisory Committee
October 19, 2016



Authorized Task Orders

TO No.	Description	Total Cost	Wastewater Cost	Water Cost
1	Pure Water Program Initiation	\$2,113,000	\$1,016,000	\$1,015,000
2	Predesign of North City Upgrades	\$14,177,000	\$4,016,000	\$10,161,000
3	Reservoir Modeling	\$253,000	\$0	\$253,000
4	Impact of Pure Water on Water Treatment Plant Operations	\$424,000	\$0	\$334,000
5	PMO/Program Management Services	\$3,431,000	\$1,715,000	\$1,716,000
6	Stress Testing and In-Operation Capacity of the North City Water Reclamation Plant (NCWRP)	\$158,000	\$158,000	\$0
7	Cogeneration Evaluation for the NCWRP and North City Advanced Water Purification Facility (NCAWPF)	\$341,000	\$170,000	\$171,000
8	Conveyance Reservoir Inlet Analysis	\$173,000	\$0	\$146,000
9	Test Plan and Analysis for Prequalification and Preselection for NCAWPF	\$1,844,000	\$0	\$1,722,000
10	Technical Advisory Committee Support of North City Predesigns	\$60,000	\$25,000	\$25,000



Authorized Task Orders (Continued)

TO No.	Description	Total Cost	Wastewater Cost	Water Cost
11	Impact of RO Brine on Wastewater Treatment Plant Operations	\$30,000	\$0	\$30,000
12	Regulatory Support for Phase I Projects	\$1,226,000	\$381,000	\$381,000
13	Strategic Oversight of Environmental Issues for the Pure Water Program	\$50,000	\$25,000	\$25,000
14	Phase 1 Environmental Site Assessment	\$20,000	\$0	\$19,000
15	Small Business Outreach	\$70,000	\$34,000	\$35,000
16	Centrate Management Options Study	\$98,000	\$98,000	\$0
17	Establish Pure Water Automation (i.e. COMNET) Requirements	\$260,000	\$131,000	\$130,000
18	Evaluate the Impacts of the NCWRP Expansion on the MBC	\$373,000	\$373,000	\$0
19	Public Outreach and Education Services	\$556,000	\$278,000	\$278,000
20	Operator Training for Future AWPf	\$122,000	\$0	\$122,000



Authorized Task Orders (Continued)

TO No.	Description	Total Cost	Wastewater Cost	Water Cost
21	Develop the Enterprise Level Control Strategy	\$57,000	\$28,000	\$29,000
22	Additional Modeling for Miramar Reservoir	\$426,000	\$0	\$426,000
23	Pure Water Program Management Services for FY17	\$2,161,000	\$1,081,000	\$1,080,000
24	Update the 2009 MBC Biosolids Process Evaluation	\$321,000	\$321,000	\$0
25	Value Engineering Review of Pure Water San Diego North City Projects	\$195,000	\$0	\$195,000
26	Evaluate Disposal Options for Centrate Generated at the MBC Facility	\$156,000	\$156,000	\$0
27	Update City Specification Sections 13300 and 13400	\$88,000	\$44,000	\$44,000
28	Design Reviews and Technical Support	\$347,000	\$227,000	\$120,000
29	Co-generation/Biosolids DBOFM	\$188,000	\$93,000	\$94,000
30	NCWRP White Paper	\$112,000	\$159,000	\$0
31	O & M Readiness Plan	\$192,000	\$96,000	\$96,000
Total Authorized Amount to Date		\$29,272,000	\$10,625,000	\$18,647,000



Future Task Orders

TO No.	Description
A	Brine Impacts – Bench Scale Testing
B	Miramar WTP Pilot Studies
C	Miramar WTP Improvements Predesign
D	CM Program Planning



Questions?



METRO JPA/TAC
Staff Presentation
Date: 10/19/2016

Project Title:

Amendment No. 1 to the As-Needed Engineering Technical Services Consultant agreement with Montgomery Watson Harza (MWH) Americas, Inc., for the Pure Water San Diego Program

Requested Action:

Approve Amendment No. 1 to the As-Needed Engineering Technical Services Consultant agreement for the Pure Water San Diego Program between the City of San Diego and MWH Americas, Inc.

Recommendations:

Approve Amendment No. 1 to the As-Needed Engineering Technical Services Consultant agreement with MWH Americas, Inc.

Metro TAC:	N/A
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	The item was presented and approved by the Environment Committee on July 21, 2016.

Fiscal Impact:

Is this projected budgeted?	Yes <u>X</u> No ____
Cost breakdown between Metro & Muni:	It is estimated that the funding will be allocated as follows: Water: 72%, Wastewater: 28% (Metro: 100%, Muni: 0%). (Note: The funding distribution will be task order based.)
Fiscal impact to the Metro JPA:	Estimated fiscal impact= \$1,538,320 (33.5% of Metro Cost)

Capital Improvement Program:

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

Previous TAC/JPA Action:

The original agreement was presented and approved by Metro TAC on October 15, 2014 and by Metro JPA/ Metro Commission on December 4, 2014.

Additional/Future Action:

City Council Action:

City Council approval of the item is anticipated on October 25, 2016.

Background:

Please view discussion below.

Discussion:

The Public Utilities Department (PUD) utilizes the As-Needed Engineering Technical Services Consultant agreement with MWH Americas, Inc., for specialized technical services to support the Pure Water Program implementation. The services generally relate to planning, design, engineering, regulatory, and program management support. The original agreement was approved by City Council on December 9, 2014, via Resolution No. R-309350. The agreement was issued on January 8, 2015, for an amount not to exceed \$30 million, for a term of five (5) years.

The contract scope and amount were based on Pure Water implementation prior to program acceleration. The initial dates for cumulative production of 15, 30, and 83 million gallons per day (mgd) were 2023, 2027, and 2035, respectively. Conditions since the contract was awarded are no longer optimal. Through work accomplished via the MWH Americas, Inc., contract, the PUD is now positioned to bring the first 30 mgd of pure water online in 2021 (versus 2023 and 2027), and is doing so through a more favorable program of facilities and projects.

The decision to accelerate came in response to the heightened sense of urgency for new local water supplies to respond to California's multi-year historic drought and climate change impacts. Bringing the first 30 mgd of Pure Water on line up to six years early will reduce the City's reliance on imported water. The acceleration has also required MWH Americas, Inc., to perform activities that would not have otherwise been needed within the term of the contract, for meeting the original 2023 and 2027 implementation dates.

Amendment No. 1 is requested to increase the not to exceed agreement value by an additional \$16,400,000 for a total not to exceed amount of \$46,400,000. The additional funding will be utilized to execute immediate and near term engineering services and will allow the PUD to continue to access technical services to support the Pure Water San Diego Program.

Project Schedule: The table below presents the anticipated schedule.

Activity	Date
Metro JPA/ Metro Commission	10/20/2016
City Council Approval	10/25/2016
Issue Notice to Proceed	11/2016

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

Not applicable.

Attachment 13

Metro Capital
Improvement
Program and Funding
Sources



THE CITY OF SAN DIEGO

M E M O R A N D U M

DATE: October 19, 2016

TO: Metro Technical Advisory Committee (Metro TAC)

FROM: Surraya Rashid, Deputy Director, Public Utilities Department

SUBJECT: FY2016 Capital Improvements Projects Report – July 2015 to June 2016

The Public Utilities Department hereby submits the FY216 CIP Report, July 2015 through June 2016.

The report includes the following:

- Projects highlights
- Expenditures variance by asset type
- Projects expenditure updates

Project Highlights

Project	Cost	Highlight
MBC Dewatering Centrifuge Replacement	\$12.1 M	Awarded Construction Contract



The dewatering centrifuges are part of Area 76, within the Metro Biosolids Center (MBC), a regional biosolids processing facility located adjacent to the City’s Miramar Landfill in Kearny Mesa and north of Interstate 52.

This project will increase the production capacity of the dewatering centrifuges to accommodate plant shutdowns for maintenance and construction, to accommodate future flows, and to address diverse types of constraining operational factors that limit current capacity.

The existing dewatering centrifuges have been in operation for more than 14 years and are approaching the end of their useful life. This project will replace six of the eight units, and increase the unit capacity from approximately 225 gallons per minute (gpm) to 350 gpm.

The notice to proceed for construction was issued on June 12, 2013 and the end of construction is estimated to be in spring 2016.

Project	Cost	Highlight
Emergency Generators at Wastewater Pump Stations	\$14.9 M	Completed Construction



This project purchased seven generators and utilized a design-build contract to install the generators and associated equipment for permanent power connection to existing sewer Pump Stations 1, 64, 65, Penasquitos, North City Reclamation Plant, and Environmental Monitoring Technical Services (EMTS) laboratory.

All seven generators (2-mega watt each) were purchased in 2013. This project also included the replacement of a gas generator with a 500kW diesel generator at EMTS. The project provided fuel storage tanks to supply three days of fuel for the generators. The generators connection to facility power services enabled automatic transfer or minimal time delay to backup power in case of a power outage.

The design-build contract was completed in June 2016.

Wastewater Expenditure Summary by Asset Type
For Projects Managed by Public Utilities and Public Works Engineering Departments
For Period Ending June 30, 2016 (Financial Data run July 18, 2016)
Estimated Expenditures from the Cost of Service Study Prepared in June 2015

NOTE: Rounding differences may occur

	[A]	[B]	[C]	[D]
Asset Type - Wastewater	FY16 Estimated Expenditures thru Pd 12	FY16 Actual Expenditures thru Pd 12	Difference	%
			[B] - [A]	[B]/[A]
Large Pump Station	\$633,001	\$2,975,815	\$2,342,814	470%
Other	\$410,087	\$1,496,156	\$1,086,069	365%
Sewer Treatment Plants	\$14,724,456	\$11,414,074	(\$3,310,382)	78%
Trunk Sewers	\$924,224	\$1,691,940	\$767,716	183%
Wastewater Total	\$16,691,768	\$17,577,984	\$886,216	105%

FY16 Metro TAC REPORT - **WASTEWATER PROJECTS**

SCHEDULE OF FY16 COST OF SERVICE STUDY (COSS) vs ACTUALS

As of June 30, 2016

Original COSS Estimates use July 1, 2015 P6 Data Date

NOTES:
- Projects are listed from highest to lowest revised project cost
- Wastewater projects are separated into Muni and Metro
- All post construction/completed projects are listed at the end of the schedule
- TBD are projects that are being implemented and have not yet established a baseline

Projects with \$1 mil or more in estimated project cost change (increase/decrease)
Projects six or more months behind schedule in design/construction phases
Projects on the radar
Post construction/completed projects

COSS - Cost of Service Study
BO/BU - Beneficial Occupancy/Beneficial Use (ie., Substantial Completion)
Variance - difference between COSS and current dates

CH = Project Charter in place
CA = Charter Amendment
P = New charter. Project was in planning/scope was being defined

SEWER PROJECTS										Planning/Design/Award Phase			Construction Phase			
WBS	Project Name	Project Phase	COSS Estimated Total Project Cost	Revised Estimated Total Project Cost	Project to Date Expenditures (thru FY16, Pd 12)	Encumbrances at FY16, Pd 12	Project Balance (Revised Proj Cost less Expenditures less Encumbrances)	% Spent (Expenditures /Revised Project Cost)	Start Date	COSS Final Design Approval End	Final Design Approval - End	Final Design Approval - End Variance	COSS BO/BU	BO/BU	BO/BU Variance	Project Charter/Amendment P6 Info as of July 1, 2016 Data Date
	LARGE SEWER PUMP STATIONS - METRO															
S00312	PS2 Power Reliability & Surge Protection	Design	\$43,100,000	\$43,330,000	\$2,577,970	\$424,931	\$40,327,099	5.95%	11/1/2010	2/8/2016	12/19/2016	231	8/30/2019	8/17/2020	259	No Project Charter or Amendment
B00313	PS1 & 2 Electrical Upgrade & New Building at PS2 Proj.	Construction	\$10,085,000	\$10,445,000	\$10,391,219	\$44,357	\$9,424	99.49%	1/8/2007	TBD	1/24/2008		2/10/2015	2/11/2015	1	No Project Charter or Amendment
S00309	NCWRP Sludge PS Upgrade	Construction	\$636,294	\$1,207,096	\$769,815	\$74,650	\$362,630	63.77%	4/1/2010	1/27/2012	1/27/2012	0	3/17/2016	7/7/2016	82	No Project Charter or Amendment
	OTHER - METRO															
S00319	EMT&S Boat Dock & Steam Line Relocation	Design	\$2,304,000	\$2,304,000	\$78,816	\$33,979	\$2,191,205	3.42%	11/23/2011	11/30/2012	11/30/2012	0	6/30/2018	6/30/2018	0	
	SEWER TREATMENT PLANTS - METRO															
S00315	PLWWTP Grit Processing (GIP)	Construction	\$37,095,037	\$37,095,037	\$36,134,507	\$317,164	\$643,366	97.41%	12/12/2000	9/30/2010	9/30/2010	0	8/17/2015	11/24/2015	73	No Project Charter or Amendment
S00339	MBC DEWTRING CNTRFGS RPLMT (SA)JO#141590	Construction	\$12,122,443	\$12,122,443	\$5,936,084	\$5,015,850	\$1,170,508	48.97%	7/1/2011	3/21/2012	3/21/2012	0	4/12/2016	6/1/2018	572	Charter Amendment Only
S00323	MBC ODOR CONTROL FACILITY UPGRADES	Construction	\$6,615,612	\$7,715,612	\$2,218,598	\$3,007,619	\$2,489,395	28.75%	12/2/2010	3/19/2015	3/19/2015	0	3/14/2017	3/14/2017	0	No Project Charter or Amendment
B10178	MBC Chemical System Improvements Phase 2	Construction	\$6,090,354	\$7,137,628	\$4,999,401	\$970,088	\$1,168,139	70.04%	2/14/2011	2/27/2015	2/27/2015	0	3/24/2017	11/10/2016	-98	No Project Charter or Amendment
S00310	SBWRP DEMINERALIZATION	Construction	\$5,973,695	\$5,973,695	\$4,377,809	\$318,110	\$1,277,776	73.28%	8/1/2012	11/30/2012	11/30/2012	0	9/17/2015	8/2/2016	235	Charter Amendment Only
B14167	SBWRP Sludge Pump & Grinder Installation	Construction	\$789,000	\$789,000	\$230,458	\$386,597	\$171,944	29.21%	8/1/2014	9/1/2015	7/31/2015	-23	4/21/2016	11/1/2016	142	Charter Only
B13227	Emergency Strobe Lights at MBC, NC, SB	Construction	\$754,000	\$754,000	\$418,148	\$29,648	\$306,204	55.46%	9/3/2013	9/30/2015	7/15/2016	212	8/3/2015	11/8/2016	340	Charter Only
B16132	SBWRP Valve Mstr Sta & Loop Control Sys	Design	TBD	TBD	\$4,174	\$0			12/18/2015	TBD	7/5/2017		TBD	5/31/2018		
	TRUNK SEWERS - METRO															
B11025	ROSE CANYON TS (RCTS) JOINT REPAIR	Adv/Bid/Award	\$6,233,000	\$14,252,295	\$681,684	\$224,548	\$13,346,063	4.78%	5/1/2013	1/20/2016	9/28/2016	185	3/30/2017	12/31/2018	470	Charter Only
B11098	W PTL Intercept & PS 2 FM Siphon Repair	Construction	\$1,500,000	\$2,300,000	\$1,386,495	\$903,974	\$9,531	60.28%	3/1/2010	TBD	TBD		6/30/2014	8/15/2016	570	
	OTHER - MUNI/METRO															
S14000	I AM San Diego Project (Metro)	N/A	TBD	\$7,841,449	\$3,333,315	\$1,833,205	\$2,674,929	42.51%	2/1/2014	TBD	TBD		TBD	12/31/2018		
S14022	MOC Complex Solar Project	Adv/Bid/Award	\$2,675,000	\$2,675,000	\$95,944	\$0	\$2,579,056	3.59%	8/1/2014	9/1/2015	10/29/2015	43	9/2/2016	10/25/2017	307	Charter Only
	POST CONSTRUCTION/COMPLETE PROJECTS - METRO															
S00322	MBC - Biosolids Storage Silos	Complete	\$9,047,838	\$9,507,436	\$8,476,026	\$0	\$1,031,410	89.15%	10/12/2006	11/15/2012	11/15/2012	0	7/16/2015	9/23/2015	51	No Project Charter or Amendment
L100002	Ovation Upgrade at North City WRP	Complete	\$3,070,000	\$3,070,000	\$2,559,395	\$0	\$510,606	83.37%	10/27/2009	3/22/2010	3/22/2010	0	11/24/2014	6/5/2014	-126	
B16015	PS2 Emergency Generators	Complete	TBD	\$3,000,000	\$1,976,420	\$0	\$1,023,580	65.88%	8/28/2015	TBD	TBD		TBD	TBD		
	POST CONSTRUCTION/COMPLETED PROJECT - MUNI/METRO															
S12036	Backup Generators at SPS's, TP & EMTS	Complete	\$17,745,600	\$17,745,600	\$14,908,195	\$215,356	\$2,622,049	84.01%	12/13/2011	9/23/2013	10/1/2013	6	10/1/2014	6/30/2016	468	

Attachment 16

MetroTAC Work Plan

Active Items	Description	Member(s)
Sample Rejection Protocol Working Group	7/16: The sample rejection protocol from the B&C 2013 report has been under discussion between PUD staff and Metro TAC. A working group was formed to deal with this highly technical issue and prepare draft recommendations on any changes to current sampling procedures. <i>The existing protocol is to be used through FY16. If changes are approved to the protocol they will be implemented in FY17.</i>	Dennis Davies Dan Brogadir Al Lau Dexter Wilson SD staff
PLWTP Permit Ad Hoc Work Group	8/15: Greg Humora and Scott Tulloch continue to meet with stakeholders. Cost allocation subcommittee continues to meet with City staff. Milestones are included in each month Metro TAC and Commission agenda packet.	Greg Humora Scott Tulloch SD staff & consultants Enviro members
Flow Commitment Working Group	6/16: Upon the request of Metro Com Chair Jim Peasley Chairman Humora created a working group to review the Flow Commitment section of the Regional Agreement and make recommendations on the fiscal responsibilities of members who might withdraw their flow from the Metro System. The Work Group held their first meeting June 24, 2016. Yazmin Arellano will chair the work group.	Yazmin Arellano Roberto Yano Eric Minicilli Al Lau SD staff Karyn Keese
Social Media Working Group	6/16: Upon the request of Metro Com Chair Jim Peasley Chairman Humora created a working group to research and provide input on the creation of policies and procedures for Metro JPA social media. Mike Obermiller will chair this work group. He sent out an email to all Metro TAC members requesting copies of their agency's policies. <i>A draft policy has been approved by Metro TAC and will be presented to the Commission in October by Alexander Heide</i>	Mike Obermiller Alexander Heide
Secondary Equivalency	5/14: Definition of secondary equivalency for Point Loma agreed to be enviros 12/14: Cooperative agreement signed between San Diego and enviros to work together to pass legislation for secondary equivalency (until 8/1/19) San Diego indicated that passage of Federal legislation is not possible under the current political environment. San Diego is exploring options for State legislation 9/15: Letter received from EPA endorsing modified permit for Point Loma 6/16: Pursuit of Federal Legislation will be held off until after the November 2016 election.	Greg Humora Scott Tulloch
Pure Water Program Cost Allocation Ad Hoc Work Group	A working group was formed to discuss Pure Water program cost allocation. <i>Concepts to be refined by Metro TAC and San Diego staff for presentation to Commission 1/17.</i>	Greg Humora Scott Tulloch Roberto Yano Karyn Keese SD staff & consultants
Pure Water Program Cost Allocation Metro TAC Work Group	5/14: Draft facility plan and cost allocation table provided to Metro TAC working group 3/15: Draft cost allocation presentation provided to Metro TAC	Greg Humora Scott Tulloch Rick Hopkins Roberto Yano Al Lau Bob Kennedy Karyn Keese
Exhibit E Audit	6/16: FY 2013 audit accepted by Metro Commission; <i>9/16: FYE 2014 audit accepted by Metro Commission. FYE 2015 audit report to be issued by end of 2016 and then all audits will be caught up.</i>	Karyn Keese Karen Jassoy
Amend Regional Wastewater Disposal Agreement	The addition of Pure Water facilities and costs will likely require the amendment of the 1998 Regional Wastewater Disposal Agreement. The Padre Dam billing errors have led to a need to either amend the Agreement and/or develop administrative protocols to help resolve potential future billing errors. After Pure Water cost allocation had been agreed to this effort will begin.	Greg Humora Roberto Yano Dan Brogadir Paula de Sousa Mills Karyn Keese

Active Items	Description	Member(s)
Management of Non-Disposables in Wastewater	9/13: Eric Minicilli handed out a position paper prepared by the NEWEA. 6/15 Chairman Humora provided attached from SCAP. 2/16: Chairman Humora distributed Robbins Geller Rudman & Dowd memorandum.	Eric Minicilli
2015/16 Transportation Rate Update	5/14: Metro TAC approved 2014 transportation rate w/caveat that PUD staff hires a consultant to review/revise methodology for 2015.	Al Lau Dan Brogadir Karyn Keese
IRWMP	8/15 RAC minutes included in August Metro TAC agenda. Padre Dam received a \$6 million grant for their project. <i>9/16: June 2, 2016 and August 3, 2016 minutes presented to Metro TAC.</i>	Bob Kennedy Steve Beppler Greg Humora
"No Drugs Down the Drain"	The state has initiated a program to reduce pharmaceuticals entering the wastewater flows. There have been a number of pharmaceutical collection events within the region sponsored by law enforcement.	Greg Humora
Strength Based Billing Evaluation	San Diego will hire a consultant every three years to audit the Metro metered system to insure against billing errors.	Al Lau Dan Brogadir Karyn Keese
Grease Recycling	To reduce fats, oils, and grease (FOG) in the sewer systems, more and more restaurants are being required to collect and dispose of cooking grease. Companies exist that will collect the grease and turn it into energy.	Eric Minicilli
Point Loma Modified NPDES Permit	1/15: Permit was submitted. EPA has begun their review. <i>11/16 first possible date at the Regional Board for consideration.</i>	Greg Humora Scott Tulloch Karyn Keese
Changes in water legislation	Metro TAC and the Board should monitor and report on proposed and new legislation or changes in existing legislation that impact wastewater conveyance, treatment, and disposal, including recycled water issues	Paula de Sousa Mills
Border Region	Impacts of sewer treatment and disposal along the international border should be monitored and reported to the Board. These issues would directly affect the South Bay plants on both sides of the border.	Bill Sandke Ed Spriggs

Metro TAC Participating Agencies Selection Panel Rotation

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

Lemon Grove	Mike James	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
National City	Joe Smith	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
Coronado	Godby, Kim	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
Otay Water District	Bob Kennedy	MBC Dewatering Centrifuges Replacement (Accepted)/Strategic Planning Rep	01/2012
Del Mar	Eric Minicilli	New As Need Engineering Contract	02/2012
Padre Dam	Al Lau	PA Rep. for RFQ for As Needed Design Build Services (Passed)	05/2012
County of San Diego	Dan Brogadir	PA Rep. for RFQ for As Needed Design Build Services (Cancelled project)	05/2012
Chula Vista	Roberto Yano	As-Needed Condition Assessment Contract (Accepted)	06/2012
La Mesa	Greg Humora	New programmatic wastewater facilities condition (Awaiting Response)	11/2012
Poway	Tom Howard	Optimization Review Study	01/2013
El Cajon	Dennis Davies	PUD 2015 Annual Strategic Plan	1/15/14
Lemon Grove	Mike James	As-Needed Engineering Services (Passed)	7/25/14
National City	Kuna Muthusamy	As-Needed Engineering Services	7/25/14
Coronado	Ed Walton	Strategic Planning	01/2014
Otay Water District	Bob Kennedy	Strategic Planning (Volunteered, participated last year)	01/2014
Del Mar	Eric Minicilli	Pure Water Program Manager Services	9/1/14
Padre Dam	Al Lau	Pure Water Program Manager Services	9/1/14
County of San Diego	Dan Brogadir	As-Needed Condition Assessment Contract	3/24/2015
Chula Vista	Roberto Yano	Out on Leave	6/10/15
La Mesa	Greg Humora	North City to San Vicente Advanced Water Purification Conveyance System	6/10/15
Poway	Mike Obermiller	Real Property Appraisal, Acquisition, and Relocation Assistance for the Public Utilities Department	11/30/15
El Cajon	Dennis Davies	PURE WATER RFP for Engineering Design Services	12/22/15
Lemon Grove	Mike James	PURE WATER RFP Engineering services to design the North City Water reclamation Plant and Influence conveyance project	03/16/15
National City	Kuna Muthusamy	Passes	04/04/2016
Coronado	Ed Walton	As-Needed Environmental Services - 2 Contracts	04/04/2016
Otay Water District	Bob Kennedy	As Needed Engineering Services Contract 1 & 2	04/11/2016
Del Mar	Eric Minicilli	Pure Water North City Public Art Project	08/05/2016
Padre Dam	Al Lau	Biosolids/Cogeneration Facility solicitation for Pure Water	08/24/2016
County of San Diego	Dan Brogadir	Pure Water North City Public Art Project	08/10/2016
Chula Vista	Roberto Yano		
La Mesa	Greg Humora		
Poway	Tom Howard		
El Cajon	Dennis Davies		
Lemon Grove	Mike James		

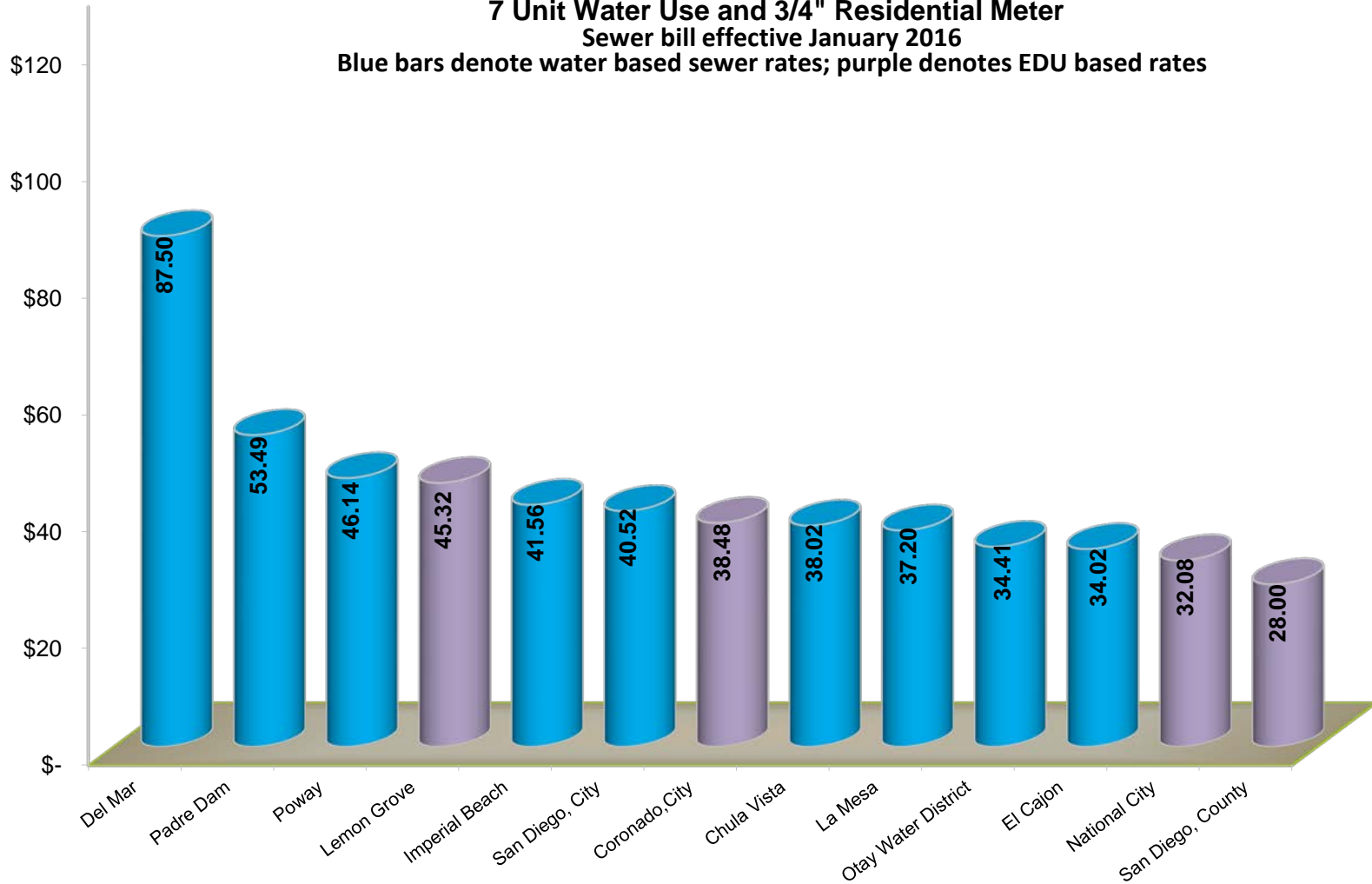
National City	Kuna Muthusamy		
Coronado	Ed Walton		
Otay Water District	Bob Kennedy		
Del Mar	Eric Minicilli		
Padre Dam	Al Lau		
County of San Diego	Dan Brogadir		
Chula Vista	Roberto Yano		
La Mesa	Greg Humora		
Poway	Mike Obermiller		
El Cajon	Dennis Davies		
Lemon Grove	Mike James		
National City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

Metro Member Agencies Sewer Rate Comparison

7 Unit Water Use and 3/4" Residential Meter

Sewer bill effective January 2016

Blue bars denote water based sewer rates; purple denotes EDU based rates



Attachment 17

Pt. Loma Permit Renewal

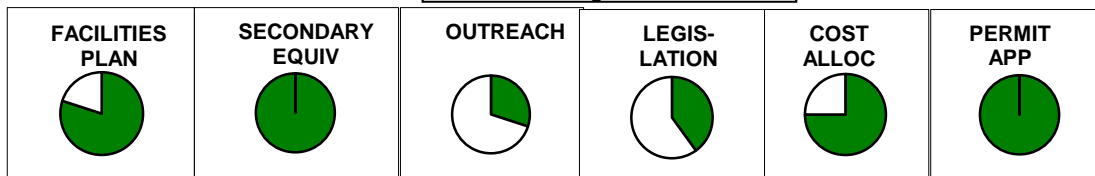
Point Loma Permit/Potable Reuse KEY MILESTONE DATES



09/14/2016

DATE	TASK	FOLLOW UP ACTION/STATUS
2014	Begin outreach to regulators, legislators, key stakeholders and public	San Diego signed contract with Katz Assoc. 5/14
01/23/2014	San Diego meet with JPA on cost allocation. 1) Agree on methodology 2) Insert construction costs from facilities plan	San Diego to look at comparing PR facilities construction through secondary to secondary at Point Loma.
February	First draft of legislative language	Draft prepared
03/05/2014	San Diego (Ann, Brent, Bob, Allan) meet with EPA staff	Pure Water program was well received by EPA
10/08/2014	City of San Diego Environmental Committee	Consideration of Pt Loma Permit
10/16/2014	Metro Commission - VOTE on Supporting Permit	
11/18/2014	City of San Diego City Council Meeting	Consideration of Pt Loma Permit and Side Agreement. Passed 9-0
2015		
January	Submit NPDES Permit to the Environmental Protection Agency	Submitted! Regional Board expected to act on permit 9/16 or 11/16
	Prepare proposed language for admin fix to Clean Water Act	
	Be ready to provide lang for legislative fix to Clean Water Act	
05/20/2015	Present Phase 1 of cost allocation to Metro TAC	
06/04/2015	Metro JPA Strategic Planning Meeting at Pt Loma	
07/01/2015	Water Reliability Coalition Potable Reuse Media Training	
09/15/2015	City of San Diego City Council Request to set Prop 218 Public Hearing for water rate increase	218 Notice for water rates approved to be mailed out
09/17/2015	Letter received from EPA endorsing Pt Loma modified permit	
11/17/2015	City of San Diego Public Hearing for water rate increases	Water rate increases approved
2016		
09/21/2016	Pure Water Program EIR to Metro TAC	
09/21/2016	Pure Water Program Update to Metro TAC	
10/06/2016	Pure Water Program EIR to JPA	
10/06/2016	Pure Water Program Update to JPA	
10/19/2016	Pure Water Cost Allocation to Metro TAC	
11/08/2016	Election day	
2017		
	Political strategy for OPRA II approval in DC	
01/05/2017	Pure Water Cost Allocation to JPA	
05/17/2017	FY19-FY23 Sewer rates to Metro TAC	
	Begin drafting updated wastewater disposal agreement	

Milestone Progress Dashboard



Amount of pie filled = % complete
 Green = on schedule
 Yellow = behind schedule
 Red = late