



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday February 15, 2023

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

LOCATION: The health and well-being of the MetroTAC members/alternates and participating staff during the COVID-19 outbreak remains our top priority. The MetroTAC is taking steps to ensure the safety of all involved by holding its February meeting electronically via Zoom.

E-mail containing information on how to participate in the meeting will be distributed to the MetroTAC members e-mail list and approved San Diego City Management Staff by Monday, February 13, 2023 by 5:00 p.m. If you do not receive the e-mail, please contact Lori Peoples at lpeoples_chulavistaca.gov PRIOR to the meeting date

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1. **ACTION:** Review and Approve MetroTAC Action Minutes for the Meeting of January 18, 2023 (**Attachment**)
 2. **ACTION:** Consideration and Possible Action to Recommend to the Metro JPA/Commission Approval of Second Amendment to the Agreement with Atoll Ventures (DBA Ocean Imaging') for the Coastal Remote Sensing Special Study of the Point Loma Ocean Outfall (PLOO) and South Bay Ocean Outfall (SBOO) Regions (Ryan Kempster/Ami Latker) (**Attachment**)
 3. **ACTION:** Consideration and Possible Action to Recommend to the Metro JPA/Commission Approval of the Pump Station 1 and 2 Improvements and Modernization Capital Improvement Project (CIP) (Tom Rosales) (**Attachment**)
 4. **ACTION:** Consideration and Possible Action to Recommend to the Metro JPA/Commission Approval of Second Amendment to the as-needed Agreement with Jacobs CH2M Hill for Professional Construction Management Services for Pure Water Phase 1 Conveyance Projects (Abi Palaseyed) (**Attachments**)
 5. **ACTION:** Consideration and Possible Action to Recommend to the Metro JPA/Commission Approval of Second Amendment to the as-needed Agreement with Parsons-Black & Veatch Professional Construction Management Services for Pure Water Phase 1 Treatment Plant and Facilities (Abi Palaseyed) (**Attachments**)
 6. **UPDATE:** Ocean Pollution Reduction Act (OPRA) II/Secondary Equivalency Quartely Report (Scott Tulloch/ Tom Rosales)
 7. **UPDATE:** Metro JPA/Commission Meeting Recap (Standing Item)
 8. **UPDATE:** Industrial Wastewater Control Committee (Standing Item) (Beth Gentry)
 9. **UPDATE:** Metro Wastewater (Financial) (Standing Item) (Adam Jones)
A. Participating Agencies Selection Panel Rotation List (**Attachment**)

10. **UPDATE:** Metro Wastewater (General) (Standing Item) (Tom Rosales)
 - A. Pt. Loma Wastewater Treatment Plant Road (next quarterly update - April)
 - B. April 10, 2020 Spill Update
 - C. January 16, 2023 Spill Update
11. **UPDATE:** Fiscal 2023 Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung) **CONTINUED TO NEXT QUARTER**
12. **UPDATE:** Pure Water Program (Standing Item) (Amy Dorman)
 - A. Pure Water Construction Contracts Update (Next Update 3/23) (Amy Dorman)
 - B. Morena Pump Station Dewatering
 - C. 2022 Pure Water Program Annual Report (Andrea Dimech) (**Attachments**)
13. **UPDATE:** Financial Report (Standing Item) (Karyn Keze)
14. **UPDATE:** Integrated Regional Water Management (IRWM) Regional Advisory Committee (RAC) Update (Standing Item) (Beth Gentry)
15. **ACTION:** Nominations for IRWM RAC Primary and Alternate Representatives (Beth Gentry)
16. **REPORT:** FY 2022 Year End MetroTAC Work Plan (Standing Item) (Beth Gentry) (**Attachment**)
17. Review of Items to be Brought Forward to the Regular Metro JPA/Commission Meeting (**March 2, 2023**)
18. Other Business of Metro TAC
19. Adjournment ([To the next Regular Meeting March 15, 2023](#))

Metro TAC 2023 Meeting Schedule

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

ATTACHMENT 1

MINUTES OF JANUARY 18, 2023

MetroTAC
(Technical Advisory Committee to Metro Commission/JPA)

ACTION MINUTES

DATE OF MEETING: January 18, 2023
TIME: 11:00 AM
LOCATION: Zoom Meeting held Online

MEETING ATTENDANCE:

Members Present

Beth Gentry, Chula Vista
Leon Firsht, Coronado
Joe Bride, Del Mar
Yazmin Arellano, El Cajon
Juan Larios, Imperial Beach
Hamed Hashemian, La Mesa
Izzy Murguia, Lemon Grove
Robert Kennedy, Otay WD
Steven Beppler, Otay WD
Michael Long, Otay WD
Paul Clarke, Padre Dam MWD
Michael Hindle, Padre Dam MWD
Sanjay Gaur, Padre Dam MWD Consultant
Alissa Nichols, Poway
Peejay Tubongbanua, County of San Diego

San Diego City Staff/Consultants

Tom Rosales, City of San Diego
Amy Dorman, City of San Diego
Adam Jones, City of San Diego
Tung Phung, City of San Diego
Craig Boyd, City of San Diego

Others Present

Doug Owen, STANTEC
Mark Elliott, Jacobs

Staff/Consultants Present

Karyn Keze, the Keze Group
Scott Tulloch, NV5
Dexter Wilson, Wilson Engineering
Lee Ann Jones-Santos, Treasurer
Lori Anne Peoples, Metro JPA Board Secretary

1. ACTION: Review and Approve MetroTAC Action Minutes for the Meeting of November 16, 2022

ACTION: Motion by Joe Bride, seconded by Peejay Tubongbauna, the Minutes be approved.
Motion carried unanimously.

2. ACTION: Pump Station 1 and 2 Improvements and Modernization Capital Improvement Project (CIP)

Tom Rosales, City of San Diego provided a brief verbal overview of the PowerPoint presentation included in the agenda package.

Karyn Keze inquired as to the recent spill on Monday from Pump Station 2 as to whether this would have been resolved by this project. Tom Rosales responded that it was inconclusive.

Karyn Keze requested that Dexter Wilson be involved with San Diego in any spill from the beginning including this one.

Steve Beppler requested additional information be included in the staff report prior to it being presented to the Metro JPA, such as the price. He also inquired as to whether there was JPA representation on the consultant selection in addition to Brown and Caldwell. Tom Rosales stated that was not part of their protocol.

Adam Jones responded that the selection of consultants has had Metro JPA staff on the selection panel in the past, e.g. Karyn Keze and Dexter Wilson sat on the Strength Based Billing Consultant selection panel.

Karyn Keze requested San Diego re-initiate the process of having a TAC representative from a rotation list be part of future consultant selection panels.

Dexter Wilson noted that the TAC representative for the Phase 2 Program Management consultant selection will be Scott Tulloch.

Karyn Keze noted that they would like to continue the practice of seeing contracts prior to the Environmental Commission and if the Commission made changes the staff report could be updated before it goes to the Metro JPA/Commission for review.

Steve Beppler requested action on this item be postponed until the next TAC meeting.

ACTION: Motion by Steve Beppler, seconded by Leon Firsh, this item be continued to the next meeting to allow for the gathering of additional information. Motion carried unanimously.

3. INFORMATION: Metro New Directors Information and Orientation

Karyn Keze provided a brief overview of the PowerPoint presentation included in the agenda package. Upon completion, she noted that it was still a work in progress and for members to not hesitate to inquire if they had any questions.

Karyn Keze then noted that the March 2, 2023, Metro JPA/Commission meeting was going to be in person as required by the lifting of the emergency order by the Governor effective February 28, 2023, and that from now on all Metro JPA/Commission and Finance Committee meetings would be in person and unless otherwise noted would be held at the MOC Operations Center as they had been before COVID. Metro TAC and Pure Water Ad Hoc meetings will still be held via ZOOM.

MetroTAC Chair Gentry noted that February would be the last ZOOM meeting of the JPA and encouraged the TAC reps to review the information in the new director's manual and that any new TAC member considers attending the March Metro JPA meeting/workshop which will discuss the history of the Metro System and particularly Pt. Loma with their Director to be followed by a tour of Pt. Loma Wastewater Treatment Plant.

4. UPDATE: Metro Wastewater JPA/Commission Board Meeting Recap

Chair Gentry stated that the December meeting was held in Coronado and all Metro JPA members who were leaving were honored. She noted that there were action minutes and the meeting calendar approved and the January JPA meeting was cancelled.

5. UPDATE: Committee on Proposed Mutual Aid Agreement with Wastewater Agencies

Committee Chair, Peejay Tubongbanua, County of San Diego stated he had no substantive update. They are still drafting the agreement and hope to be finished late spring and be able to circulate it to the PAs at that time for review and input.

MetroTAC Chair Gentry stated she would schedule this for quarterly reports from now on.

6. UPDATE: Industrial Wastewater Control Committee

MetroTAC Chair and Chair of the Committee stated she had no update.

7. UPDATE: Metro Wastewater (Financial)

Adam Jones, City of San Diego thanked Peejay for reaching out to him regarding the State Budget and noted that they had received all metro loans for water and were still pending regarding wastewater. He noted that the required January Metro FY2024 Budget Estimate had been sent to PA staff contacts based on best estimate/cash flow

Adam then provided a brief verbal overview of a PowerPoint presentation (attached as Exhibit A to these minutes). The presentation covered: FY2023 (Current Year) Table D - SD-PUD Allocation of Fiscal Year 2023 Estimated Budget Functional Design Based on Allocation Method; FY2024 Budget (Estimate) Table D – SD-PUD – Allocation of Fiscal Year 2024 Estimated Budget Functional Design Based Allocation Method; FY 2024 Details – CIP and O&M.

Karyn Keze thanked Adam for his excellent presentation noting it was a last-minute request as the budget estimate had gone out earlier in the week.

8. UPDATE: Metro Wastewater (General)

A. Pt. Loma Wastewater Treatment Plant Road

Tom Rosales, City of San Diego stated that he had no new information other than monitoring was continuing and the recent storm and high tides did not register any changes

B. April 10, 2020 Spill Update – Supplemental Environmental Project Review and Other Solutions

Tom Rosales reported that the City had received the settlement agreement Draft in December from the Regional Board. The next step is to hold a Closed Session with San Diego City Council on February 6 where staff will introduce the item and request approval to enter into an agreement with the Regional Board. The Regional Board will then issue a 30-day Public Notice. On April 12, the Regional Board will take action. Tom committed to notifying the MetroTAC when the Regional Board makes this public.

MetroTAC Chair Gentry asked if General Counsel for the City could convey some information to the Metro JPA General Counsel and requested the Public Notice from the Regional Board be provided to MetroTAC. Tom Rosales stated he would make sure whatever he received would be distributed to MetroTAC if it could be.

Karyn Keze stated she understood another spill occurred and requested an explanation in basic detail with the full explanation to be provided at the next meeting.

Tom Rosales stated that preliminary investigations showed that on Monday, due to heavy rainfall, followed by a power outage at the South Bay facility a day before, the flow came into Pump Stations 1 and 2 around 2:50 Monday and there was a sensory failure in the wet well at Pump Station 2. The sensor failed and sent a signal to the pumps indicating that the wet well was dry and to turn it off. With such a large flow of water coming in, it backed up down Harbor Drive and other low-lying areas. The City did a manual process and within 1 hour had all pumps operating. Unfortunately, the back up came out of man holes and flowed into businesses in the area. They notified the regulatory agencies and posted 10 locations in the Harbor area to not enter the water. They are still calculating how much raw sewage spilled. The preliminary estimate was 500,000 gallons and they will modify the number once additional information comes in. He stated that these are preliminary assumptions and the full forensics surrounding the spill were stilling being investigated.

Karyn Keze again requested Dexter Wilson be involved from the get go on this spill and Tom Rosales stated he absolutely would and will include and notify Dexter of anything in the future automatically.

Dexter Wilson stated he would appreciate the opportunity to review what is being sent to the Regional Board on spills prior to it being sent. Some actions taken are not reflected in the report and he would like the opportunity to provide input and possible corrective technical reporting where the city tells their side of the story.

Hamed Hashemian inquired if review of the sensor system will be part of the process.

Tom Rosales stated he will be reviewing the process of how spills are handled and include MetroTAC in the notification process and with regulatory items.

9. **UPDATE: FY 2023 Metro Capital Improvement Program Funding Sources Quarterly Reports**

Tung Phung, San Diego, provided an overview of his presentation included in the agenda package. The spreadsheet shows all wastewater projects separated into Muni and Metro and are for the period of July 1 through September 30, 2022.

10. **UPDATE: Pure Water Program**

A. Pure Water Construction Contracts Update

Amy Dorman, City of San Diego provided a brief verbal overview of table included in the agenda package which contains all 10 contracts bids; awards; and status of each.

B. Secondary Equivalency (Tom Rosales)

Tom Rosales, City of San Diego stated that OPRA 2 did not pass. The next step which Allie in the Mayor's Office is already working on engages with Congressman Peters Office. The plan is to reintroduce it.

11. **UPDATE: Financial Report**

Karyn Keze stated she and Adam were working on the five-year Metro forecast and hope to present to the TAC in February or March.

She requested all TAC members contact her or Adam with any questions on the Five-Year Forecast as well as the FY2024 Metro Budget Estimate.

12. **UPDATE: IRWMP**

MetroTAC Chair Gentry stated that the December meeting had been cancelled so she had no update.

13. **ACTION: New Members to IRWM Committee**

MetroTAC Chair Gentry stated she was still looking for a primary and alternate representative as she and Yazmin have been serving for several years and now as TAC Chair and Vice Chair it was a bit much. She noted there were only 4 meetings annually and they last 2 hours maximum. Whoever attends will learn a lot. Poway MetroTAC member Alisa Nichols stated she might be interested and will contact Beth directly. Paul Clarke of Padre Dam stated he thought Karen Jassoy might be interested and he will discuss this with her and would have her contact Beth as well.

14. REPORT: MetroTAC Work Plan

Chair Gentry noted that the MetroTAC Work Plan was attached to the agenda. Karyn Keze stated she had updated the work plan while working on updates to the website and stressed to everyone to review their monthly single family sewer rate and advise her so that she can update them to correct the current numbers reflected.

15. Review of items to be Brought Forward to the Regular Metro Commission/Metro Wastewater JPA Meeting on December 1, 2022

Chair Gentry stated Item 2 would move forward along with Adam's financial reports. There also may be a closed session with items from the November TAC meeting going forward to the February Metro JPA meeting. She also noted that the Metro JPA Closed Sessions cannot legally include MetroTAC representatives or PA staff. She referred them to Section 14.5 Procedure No. 1 - Memo re AG Opinion 21-1102 - Staff at Closed Session of the New Directors manual for further information.

16. Other Business of MetroTAC

Chair Gentry reminded the new members of the Metro JPA meeting and Pt. Loma tour at their March meeting and encouraged new members to attend. The meeting will be held at its regular in person location, San Diego Public Utilities Department (PUD) MOC II Auditorium in Kearney Mesa and begin at 12 pm. The address will be on the agenda.

17. Adjournment to the Next Regular Meeting

There being no further business the meeting was adjourned at 1:06 p.m.

ATTACHMENT 2

SECOND AMENDMENT TO AGREEMENT WITH ATOLL VENTURES DBA OCEAN IMAGING (PLOO & SBOO) REGIONS

METRO JPA/TAC
Staff Report
Date: 2/15/2023

Project Title:

Second Amendment to the Agreement with Atoll Ventures (DBA 'Ocean Imaging') for the Coastal Remote Sensing Special Study of the Point Loma Ocean Outfall (PLOO) and South Bay Ocean Outfall (SBOO) Regions (Ryan Kempster/Ami Latker)

Requested Action:

Consideration and Possible Action to Recommend to the Metro Comm/Metro Wastewater JPA for Approval

Recommendations:

Metro TAC:	Present to JPA as an action item.
IROC:	No IROC presentation planned. Funds for this longstanding agreement are budgeted in the Annual Budget within the Metro Operating Fund and do not require IROC review.
Prior Actions: (Committee/Commission, Date, Result)	

Fiscal Impact:

Is this projected budgeted?	Yes X No ____
Cost breakdown between Metro & Muni:	100% Metro
Fiscal impact to the Metro JPA:	<p>The total fiscal impact of this agreement is \$1,619,382 (5 years);</p> <ul style="list-style-type: none">• \$360,129 in Fiscal Year 2024,• \$303,667 in Fiscal Year 2025,• \$309,176 in Fiscal Year 2026,• \$318,436 in Fiscal Year 2027, and• \$327,974 in Fiscal Year 2028. <p>Funding for this contract is already included in our annual program budget; thus, no budget increase is needed for the scope of this agreement. A portion of this agreement, an annual amount of 25% of the contract value, is funded/reimbursed by the IBWC.</p>

Capital Improvement Program:

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

Previous TAC/JPA Action:

Additional/Future Action:

City Council Action:

Not yet heard by council – Expected April 2023

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

This project represents a long-term collaboration between the City of San Diego (City), the International Boundary and Water Commission (USIBWC), and Ocean Imaging that was initiated by the Regional Water Quality Control Board (RWQCB) in 2002. The remote sensing services provided by Ocean Imaging fulfills NPDES permit requirements for the Point Loma Wastewater Treatment Plant, the South Bay Water Reclamation Plant, and the South Bay International Wastewater Treatment Plant. Further, it is a critical component of the City's monitoring program included in the Point Loma NPDES Permit 301(h) Waiver Application. As a result, this project is essential to the Public Utilities Department being able to meet its permit requirements associated with the discharge of wastewater to the Pacific Ocean via the Point Loma Ocean Outfall (PLOO) and South Bay Ocean Outfall (SBOO). Monitoring conducted by Ocean Imaging utilizes various aerial and satellite sensors to detect patterns in natural oceanographic variables, point and non-point source terrestrial runoff, and anthropogenic sources such as San Diego's two large ocean outfalls. Due to the highly technical and tailored services that Ocean Imaging Corp. provides, they are uniquely positioned to conduct this work. Furthermore, Ocean Imaging's existing remote sensing data archive, and customized analysis results linking historical remote sensing, field sampling, and environmental/oceanic parameters, are essential to the City's evaluation of trends in our region. No other organization has such a dataset, or comparable capabilities.

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

This program has been ongoing for the past 21 years, after being initiated by the RWQCB in 2002. The RWQCB has since continued to support the continuation of this project as it is consistent with the Board's and City's initiatives to modernize monitoring programs using advanced, scientifically sound technologies to protect the region's coastal marine environment.

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

N/A

Public Utilities Department

Coastal Remote Sensing of the San Diego/Tijuana Region 2023-2028 Second Amendment

Feb 15th, 2023

Peter S. Vroom, Ph.D. (Deputy Public Utilities Director)

Ryan M. Kempster, Ph.D. (Ocean Monitoring Program Manager)

Ami Latker (Marine Biologist III and Contract Coordinator)



Requested Actions

1.

Authorize the Mayor to execute an Amendment to the existing contract with Ocean Imaging, Inc. to continue to provide remote sensing services.

2.

Authorize the expenditure of \$1,619,382 to fund this agreement.

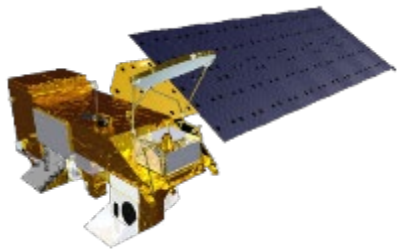


Background and History

Ocean Imaging Inc.

Founded in 1984

Specializes in Satellite Imagery





Background and History

Water Quality Board Initiated Contract in 2002

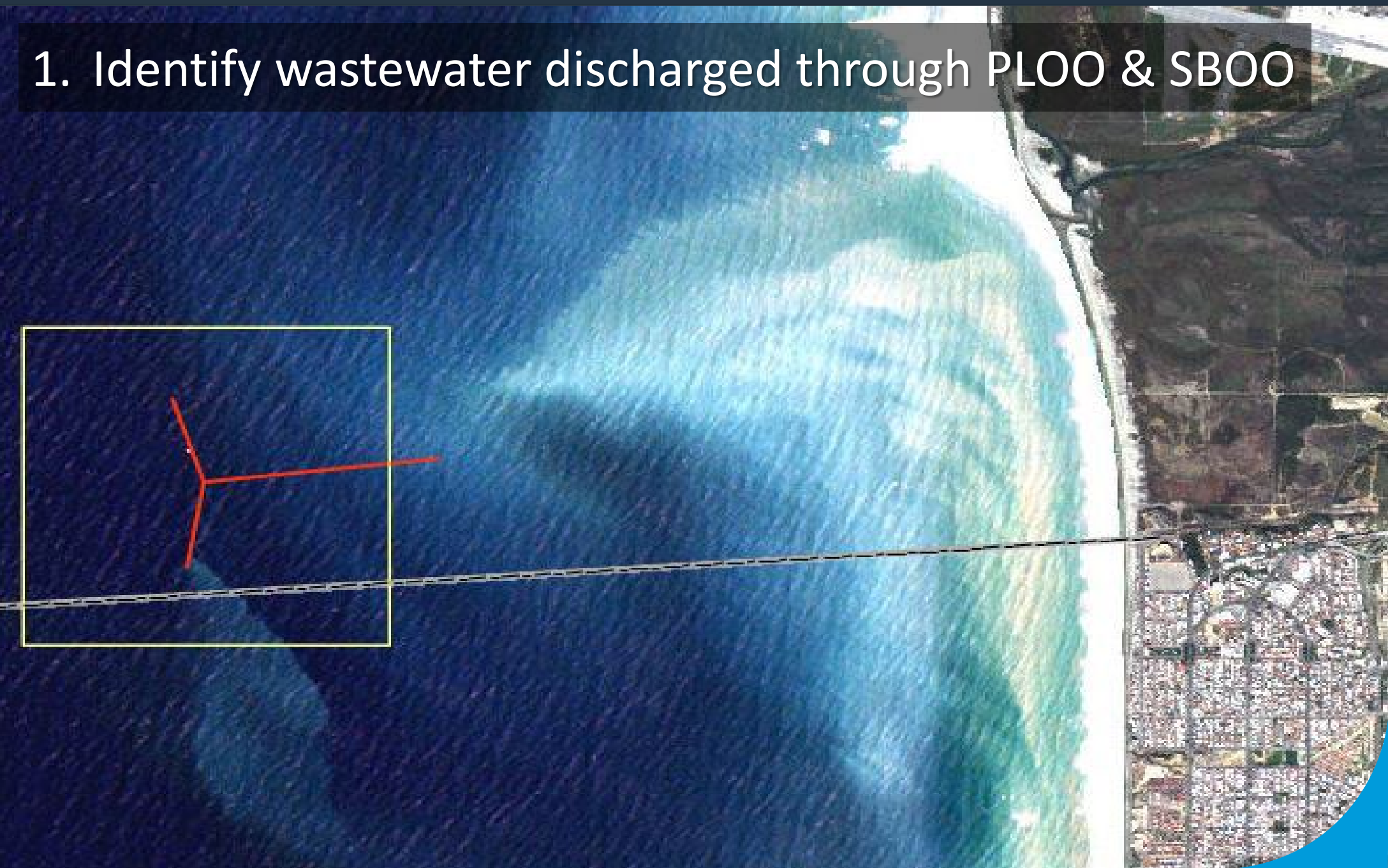
Initially a PLWTP NPDES 'Special Study'

Permit Mandated Component of OMP



Special Study Goals

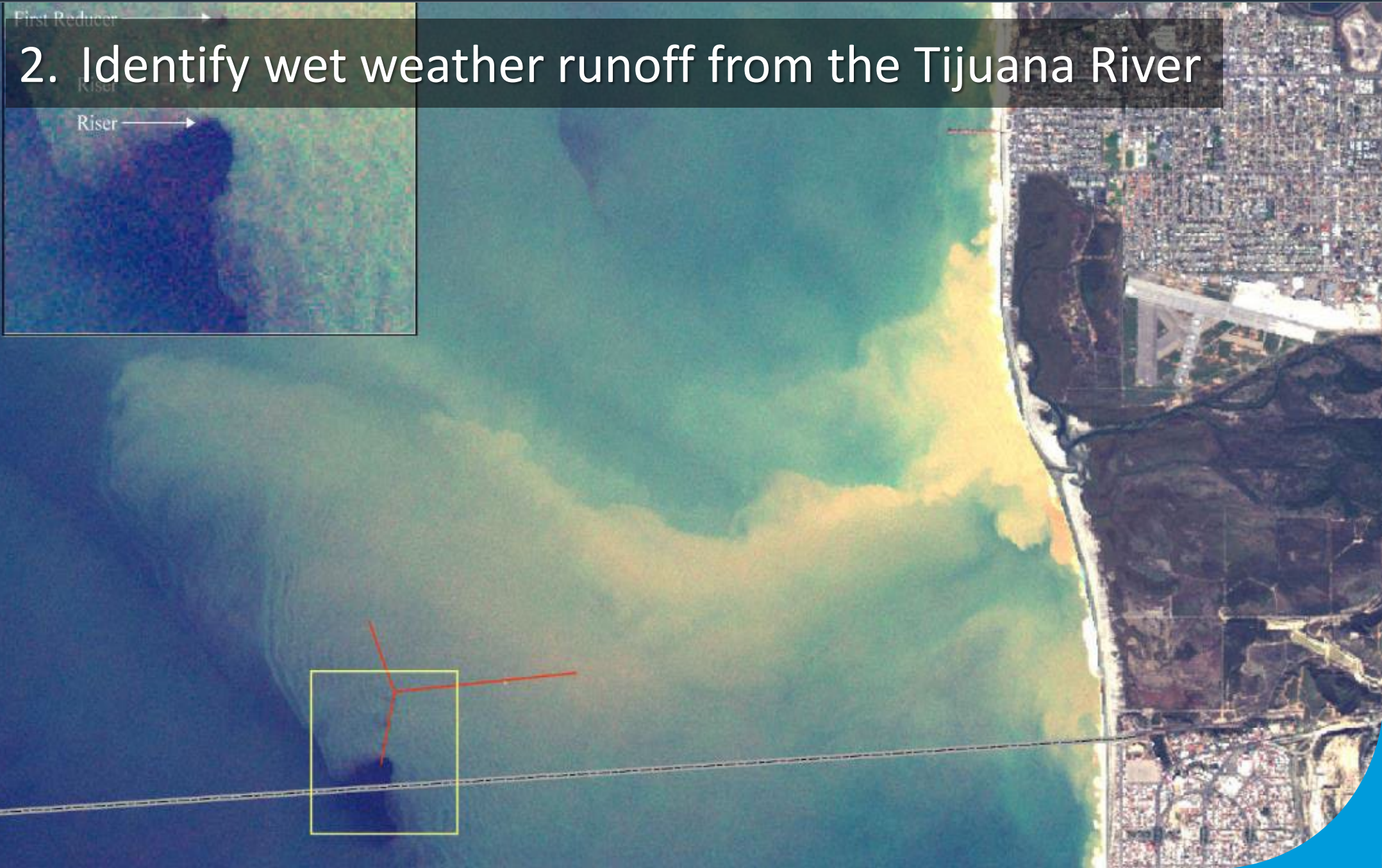
1. Identify wastewater discharged through PLOO & SBOO





Special Study Goals

2. Identify wet weather runoff from the Tijuana River





3. Identify other sources of coastal runoff





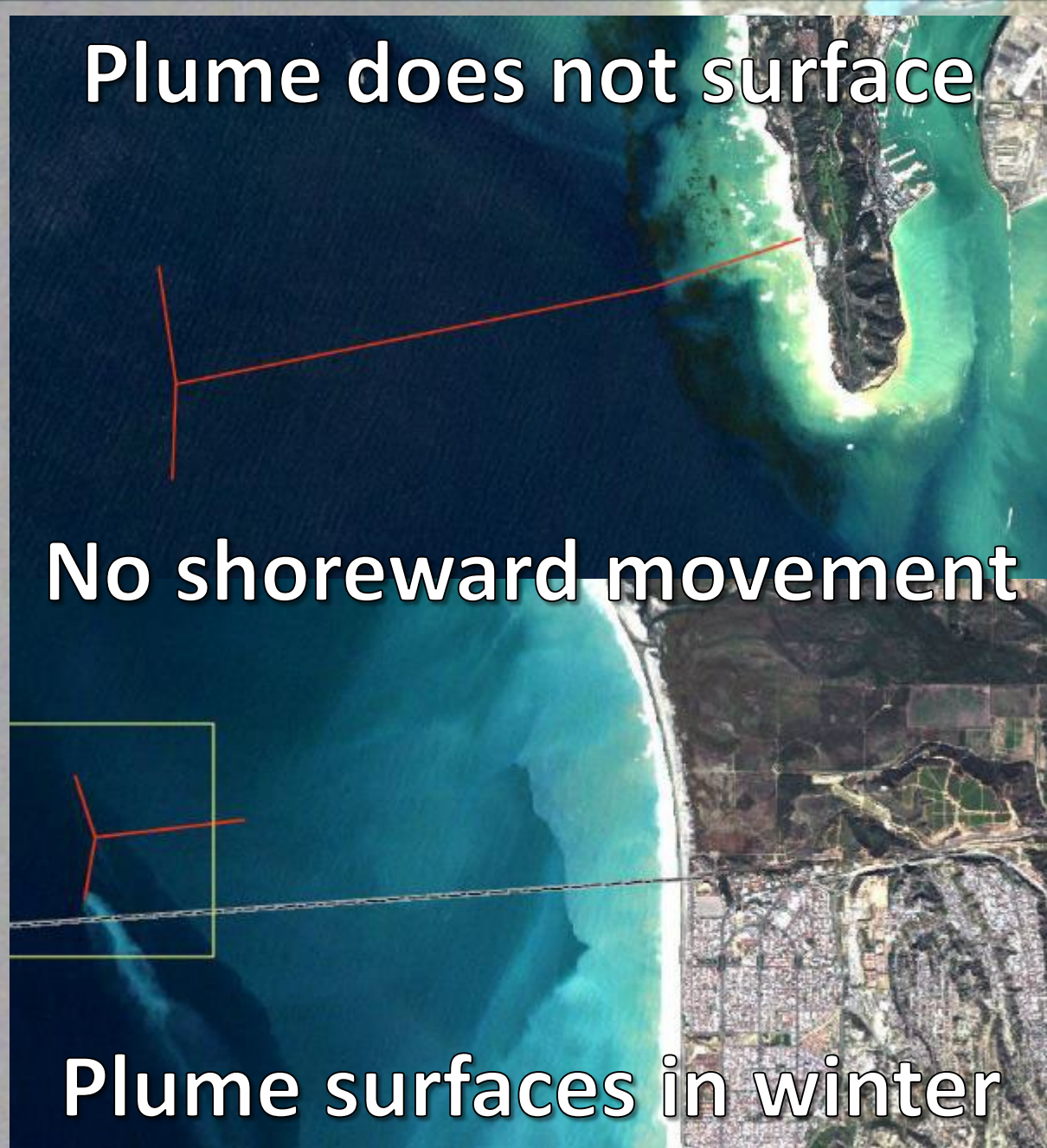
Point Loma

Plume does not surface

No shoreward movement

South Bay

Plume surfaces in winter





Benefits to the City

1. Represents a significant contribution to the City's enhanced ocean monitoring efforts for the San Diego region.
2. Fulfills an NPDES permit requirement for the PLWTP, SBWRP, and the SBIWTP.
3. Provides critical scientific information in support of the City's 301(h) modified permit for PLWTP.
4. Differentiates effects of wastewater discharge on coastal ecosystems relative to other anthropogenic or natural factors.
5. Continues scientifically unique, long-term program essential to assessing wastewater effects on San Diego coastal environment



Ocean Imaging - Contract Amendment

Extends agreement with Ocean Imaging through June 2028 (5 years)

Provide satellite imagery of PLOO and SBOO regions

To identify:

1. Wastewater
2. Coastal runoff
3. Other sources of pollution
4. Harmful Algal Blooms (HABs)



Ocean Imaging - Contract Amendment

Budget Requested

FY24 (7/1/2023 – 6/30/2024)

\$360,129

FY25 (7/1/2024 – 6/30/2025)

\$303,667

FY26 (7/1/2025 – 6/30/2026)

\$309,176

FY27 (7/1/2026 – 6/30/2027)

\$318,436

FY28 (7/1/2027 – 6/30/2028)

\$327,974

Total

\$1,619,382*

** ~25% of total cost is reimbursed by the USIBWC*



“It is anticipated that this program will continue in future years” *2002 NPDES Permit*

SDRWQCB

Continues to support this monitoring in NPDES Permit renewals for the PLWTP, SBWRP, and the SBIWTP.

USIBWC

Continues to financially support this long term investigation as part of their ongoing contract with the City.

City
Council

Original contract approved by council (Aug, 2015)
Current amendment will be presented on April 11th

Metro JPA

Current amendment will be presented on March 2nd



Project Contacts

City of San Diego

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Ami Latker

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Ocean Imaging

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Mark Hess, Ph.D.

Principal Investigator
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ATTACHMENT 3

PUMP STATIONS 1 & 2 IMPROVEMENTS AND MODERNIZATION CIP

METRO JPA/TAC
Staff Report
Date: February 15, 2023

Project Title:

Pump Station 1 and 2 Improvements and Modernization – Capital Improvement Project (CIP)

Requested Action:

Consideration and possible action to recommend to the Metro Commission/Metro Wastewater JPA approval of PS1 and PS2 Improvements and Modernization Capital Improvement Project and award of design contract not to exceed \$5,800,000

Recommendations:

Approval

Metro TAC:	Present to JPA as an Action Item
IROC:	No IROC presentation planned.
Prior Actions: (Committee/Commission, Date, Result)	N/A

Fiscal Impact:

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	100% Metro
Fiscal impact to the Metro JPA:	The City is currently negotiating the design fee.

Capital Improvement Program:

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

Previous TAC/JPA Action:

N/A

Additional/Future Action:

N/A

City Council Action:

Item to anticipated to be presented to the Environment Committee and City Council in February/March 2023 to create the CIP project and authorize appropriation and expenditure of funding for design.

Background: Provide background information on the need for the project

The City of San Diego's (City) Public Utilities Department operates wastewater conveyance, treatment and disposal facilities that serve both City of San Diego customers and the 12 participating agencies of the Metropolitan Joint Powers Authority (Metro JPA). Pump Stations 1 (PS 1) and 2 (PS 2) are the largest pump stations within the City's wastewater system. Wastewater from the South Bay region is delivered to PS 1 (located at 3550 East Harbor Drive, San Diego, CA 92101 near the border with National City) via the South Metro Interceptor (SMI). PS 1 has been in service since 1963 and has been upgraded in phases. In 1976, pumping capacity was increased from 4 to 5 pumps, and in 1993 capacity was increased with the addition of a 6th pump. PS 1 also has two (2) backup generators that were installed in 2015 to maintain

power to the pump station should the SDG&E utility power be lost. PS 1 discharges through the SMI sewer pipe in the downtown area, to PS 2, located west of the San Diego International Airport.

Pump Station 2 is the final pump station for the North Metro Interceptor (NMI) and SMI systems and is responsible for pumping all wastewater to the Point Loma Wastewater Treatment Plant for treatment and disposal. PS 2 has a design capacity of 432MGD (million gallons/day). PS 2 pumps an average daily flow of 140MGD. PS 2 has been in service since 1963 and has been upgraded in phases. In 1986, 1987 and 1992 additional pumps were added taking the total pumps from 5 to 8. In 1992 natural gas engines for Pumps No. 4 and 5 were added to provide multiple sources of power for the pump station. PS 2 also had two (2) backup generators installed in 2016 to maintain power to the pump station should the SDG&E utility power be lost.

The proposed capital project addresses improvements and modernization at both PS 1 and PS 2 since the operations of both pump stations are closely tied together. With a single designer, the proposed upgrades and equipment replacements can be more economically and efficiently designed while the improvements are done at the same time. A combined project will assist the acclimation of the City staff to the new equipment and increase operational flexibility to deploy staff at either location in the future.

A condition assessment was completed in 2018 which is the primary driver of the project.

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

N/A

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

An RFP for a design consultant was issued in April 2022. The City could not reach an agreement with the first consultant, Lee & Ro, so negotiations began with the next consultant, Brown & Caldwell. Negotiations are continuing and are expected to be completed soon. The City received approval from its Environment Committee on February 9, 2023 to continue negotiations for a not to exceed amount of \$5,800,000 and provide a memorandum to City Council once an agreement has been reached.

Public Utilities Department

Pump Stations 1 and 2 Improvements and Modernization Capital Improvement Project (CIP)

Metro TAC
February 15, 2023

Background

- Pump Stations 1 and 2 are the largest pump stations in the City's system and critical to moving the region's wastewater for treatment at Point Loma Wastewater Treatment Plant
- Both stations were constructed and put into operation in 1963
- Needed upgrades and improvements were identified in a 2018 Condition Assessment performed by HDR
- Requested Action is to authorize the creation and execution of Capital Improvement Project for Pump Stations 1 and 2 Improvements and Modernization and award design consultant contract not to exceed \$5.8M



Pump Station 1 pump room.

City of San Diego Existing Major Metropolitan Wastewater Facilities



CIP Pump Station 1

Pump Station 1

Scope of work includes:

- Rehabilitation of wet wells 1 and 2.
- Raising mechanical screens above ground and adjusting the conveyor to match above grade screen.
- Replacement of all six electric motors and pumps.
- Replacement of liquid rheostats with variable frequency drives (VFDs).
- Replacement of suction pipes, gate valves, and flow meters.



Pump Station 1 – suction valve (upper) and screens (lower).

CIP Pump Station 2

Pump Station 2

Scope of Work includes:

- Repairing liner and concrete in the influent channel.
- Replacement of corroded top supports at mechanical screens 1 through 4.
- Line wet wells 1 and 2.
- Rehabilitating six electric motors and eight pumps.
- Replacement of liquid rheostats with variable frequency drives (VFDs).
- Replacement of pump cone valves and actuators.



Pump Station 2 - suction valve (upper) screens below grade (lower).

Schedule and Cost

- Preliminary engineering project started in FY 2022.
- Design is anticipated to be completed in FY 2025.
- Construction is anticipated to be completed by December 2028.
- Project costs estimated \$30M. Expected to increase from inflation and improved detail of final design.



Pump Station 1 (upper) and Pump Station 2 (lower).



Requested Action

Consideration and possible action to recommend to the Metro Commission/Metro Wastewater JPA approval of PS1 and PS2 Improvements and Modernization Capital Improvement Project and award of design contract not to exceed \$5,800,000



Questions?

ATTACHMENT 4

SECOND AMENDMENT TO AGREEMENT WITH JACOBS CH2M HILL (prof. const. mgt. svcs for PW Phase 1)

METRO JPA/TAC**Staff Report**

Date:

Project Title: Pure Water Program Extension to Jacobs CH2M Hill Contract**Presenter(s) Name:**

Abi Palaseyed

Presenter(s) Title:

Assistant Deputy Director

Requested Action:**Consideration and Possible Action to Recommend to the Metro Comm/Metro Wastewater JPA Approval of Second Amendment to the as-needed Agreement with Jacobs CH2M Hill for professional construction management services for Pure Water Phase 1 conveyance projects****Recommendations:****Approve amendment**

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

Fiscal Impact:

Is this projected budgeted?	Yes ____ No ____
Cost breakdown between Metro & Muni:	These as-needed services will be issued in dedicated task orders for each capital project or non-capital expenses. Non-capital expenses will use the default 38% 62% cost allocation for Pure Water expenses, which will be adjusted based on final cost allocation for the project. Capital expenses are allocated based on the capital work covered under the task order based on the utility system benefiting from the work.
Fiscal impact to the Metro JPA:	Capital costs are allocated to member agencies under their percentages under Exhibit G allocation, listed in the ARA as the Pure Water capital cost rate. All pure water O&M costs are tracked and will be cost allocated in the year in which they occur and a final allocation will be done after the completion of the capital project.

Capital Improvement Program:

New Project?	Yes ____	No ____	N/A ____
Existing Project?	Yes ____	No ____	Upgrade/addition ____ Change ____

Previous TAC/JPA Action:

None

Additional/Future Action:

Present item to Metro JPA/ Metro Commission in February 2023.

City Council Action:

City Council approval expected in March 2023.

Background: Provide background information on the need for the project

The City entered into agreement with CH2M Hill (Jacobs-CH2M Hill) on April 30, 2018 for 5 years and \$45,000,000.00. The contract is for professional construction management services for Pure Water Phase 1 conveyance projects on an as-needed, hourly fee basis. Task Order scope and fees are negotiated by the City with Jacobs-CH2M Hill and their subconsultant and are based on the necessary resources and support services needed to hold contractors accountable for their construction work on Pure Water Phase 1. It is important to note that the original contract fee of \$45,000,000 was estimated using the information that was known at the time of the Request for Proposal (RFP) in October 2017 and that design of Pure Water Phase 1 conveyance projects had not been completed. The RFP estimated the total construction cost for the Pure Water Phase 1 conveyance projects to be approximately \$245,100,000, however, to date approximately \$499,000,000 has been awarded or is anticipated to be

awarded. It was expected that Jacobs-CH2M Hill costs will increase as construction costs and construction schedules increase.

Additional service items not originally planned to be completed by Jacobs-CH2M Hill but are necessary to include in this amendment are material sampling & testing which was originally planned to be performed by the City Lab Section, field surveying which was originally planned to be performed by the City Survey Section, ariel/drone photography, development of monument perpetuation plan sheets, risk mitigation advisors and analyses, construction schedule changes from daywork to nightwork and coordination of utility conflicts during design phase. To date, a total of seven tasks have been issued to Jacobs-CH2M Hill and one additional task order is anticipated.

This is a planned amendment as it was known at the time of contract procurement that the overall schedule for Pure Water Phase 1, including construction contract durations, start-up and integration period, acceptance, mitigation and monitoring and warranty would extend beyond 5 years. Additionally, due to a lawsuit filed by the Associated General Contractors (AGC), the construction contracts delayed advertising as originally scheduled in the RFP by approximately 1 year and six months. The Projects originally began advertising in February of 2019. AGC filed an injunction against the City in June of 2019 and subsequently filed a lawsuit in October 2019 challenging the Pure Water Construction Contracts. The City was not allowed to resume advertisement of the construction contracts until August 2020.

This amendment is requesting an additional three years and three months for a total contract duration of eight years and three months which covers the remaining construction contract durations, Pure Water Phase 1 start-up and integration period, acceptance and warranty period as well as the delay time associated with the ACG lawsuit. This amendment is also requesting an additional \$40,000,000.00 for a total contract amount of \$85,000,000.00.

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

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

Metro Wastewater JPA TAC

**Amendment No. 2 to the Agreement with Parsons-Black & Veatch
Joint Venture for As-Needed Construction Manager - Treatment
Plant and Facilities Projects - Contract Number H176935**

&

**Amendment No. 3 to the Agreement with Jacobs-CH2M Hill
Engineers, Inc. for As-Needed Construction Management Services –
Conveyance Projects - Contract Number H176955**



Strategic Capital Projects Department



Actions

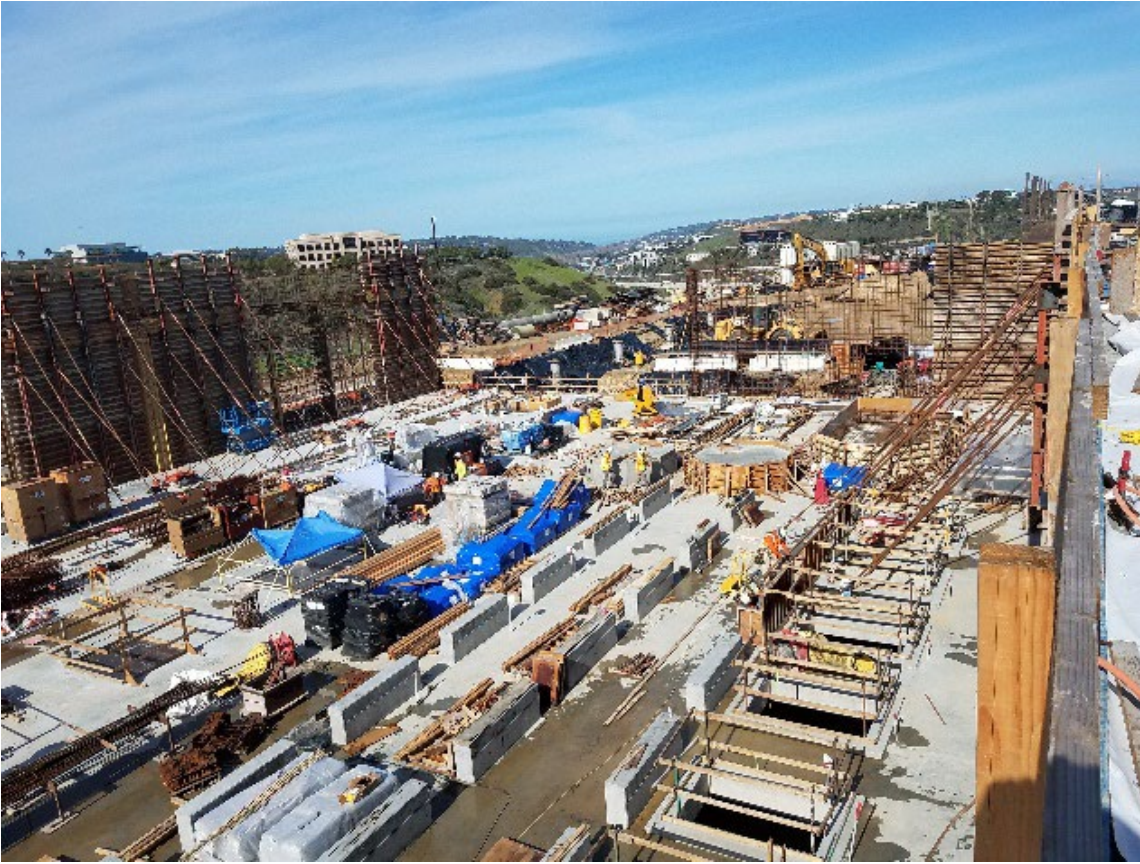
Jacobs-CH2M Hill

1. An ordinance authoring the Third Amendment to the agreement with Jacobs-CH2M Hill Engineers, Inc. for As-Needed Construction Management Services – Conveyance Projects (H176955) for an additional amount not to exceed \$40,000,000.00 and for a contract extension of 39 months.
2. Authorizing the Chief Financial Officer to expend an amount not to exceed \$40,000,000.00 in total from the following two Water Funds: 700011 (Water Utility Operating), 700010 (Water Utility CIP); and the following two Sewer Funds: 700001 (Metro Sewer Utility), 700009 (Metro Sewer CIP).

Parson- Black & Veatch JV

1. An Ordinance authorizing a Second Amendment to the agreement with Parsons-Black & Veatch Joint Venture For As-Needed Construction Management Services – Treatment Plant Facilities (H176935) for an additional amount not to exceed \$35,000,000 and for a contract extension of 36 months.
2. Authorizing the Chief Financial Officer to expend an amount not to exceed \$35,000,000.00 in total from the following two Water Funds: 700011 (Water Utility Operating), 700010 (Water Utility CIP); and the following two Sewer Funds: 700001 (Metro Sewer Utility), 700009 (Metro Sewer CIP).

Actions, Cont'd



Pure Water Facility Construction Progress Photo

Parson- Black & Veatch JV

3. Declaring that the construction management services for the Peñasquitos Pump Station Oxygenation System project is categorically exempt from the California Environmental Quality Act (CEQA);
4. Declaring that the construction management services for the Central Area Small Scale Facility (CASSF) at Point Loma (Phase 2 Demonstration Facility) is categorically exempt from CEQA; and
5. Declaring that the Council of the City of San Diego has determined that an exception to the exemptions as set forth in CEQA Guidelines Section 15300.2 would not apply in that no cumulative impacts were identified

Original Agreement Terms

Jacobs-CH2M Hill

- Awarded: 4/30/2018
- Durations: 5 years (Expires 4/30/2023)
- Contract Amount: \$45,000,000.00
- Scope of Services:
 - Consultant Team Management
 - Constructability Reviews
 - Development of CM Plan
 - Field Office Admin Setup
 - Field Inspection & Special Inspection
 - Project Controls
 - Contract Compliance/Admin
 - Environmental Compliance
 - Field Safety
 - Testing Start-up/Commissioning
 - Contract Closeout

Parson- Black & Veatch JV

- Awarded: 7/25/2018
- Durations: 5 years (Expires 7/25/2023)
- Contract Amount: \$75,000,000
- Scope of Services:
 - Consultant Team Management
 - Constructability Reviews
 - Development of CM Plan
 - Field Office Admin Setup
 - Field Inspection & Special Inspection
 - Project Controls
 - Contract Compliance/Admin
 - Environmental Compliance
 - Field Safety
 - Testing Start-up/Commissioning
 - Contract Closeout

SD BACKGROUND: PLANNED VS ACTUAL CONSTRUCTION COST

Pure Water Phase 1 Projects Managed by Jacobs-CH2M Hill Construction Cost Estimates versus Actuals

Contract Name	Estimate at RFP	Actual Cost	Δ
Morena Pump Station	\$50,900,000.00	\$110,386,350.00	\$59,486,350.00
Morena Conveyance*	\$126,100,000.00		\$98,902,540.12
Morena Conveyance Northern*		\$95,243,645.12	
Morena Conveyance South & Middle*		\$129,758,895.00	
North City Pure Water PL & Subaqueous PL	\$ 68,100,000.00	\$123,456,027.23	\$55,356,027.23
Morena PL**	UKN	\$40,000,000.00	\$40,000,000.00
Total	\$245,100,000.00	\$498,844,917.35	\$253,744,917.35



North City Water
Reclamation Plant
Flow Eq Basin
Construction
Progress Photo

Pure Water Phase 1 Projects Managed by Parsons B&V Construction Cost Estimates versus Actuals

Contract Name	Estimate at RFP	Actual Cost	Δ
Early Site works	\$17,200,000.00	\$16,403,300.00	\$(796,700.00)
NCWRP Expansion & PS	\$138,600,000.00	\$255,138,000.00	\$116,538,000.00
NCWRP Eq Basin	\$7,300,000.00	\$11,886,000.00	\$4,586,000.00
NCPWF & PS	\$402,400,000.00	\$356,681,930.00	\$(45,718,070.00)
MBC Improvements	\$36,500,000.00	\$40,086,690.00	\$3,586,690.00
Miramar DWTP Imp*	TBD	UKN	
Renewable Energy	TBD	UKN	
Miramar PS*	UKN	\$12,692,000.00	\$12,692,000.00
Peñasquitos PS*	UKN	\$4,391,767.00	\$4,391,767.00
CASSF*	UKN	\$38,000,000.00	\$38,000,000.00
Total	\$ 602,000,000.00	\$735,279,687.00	\$133,279,687.00

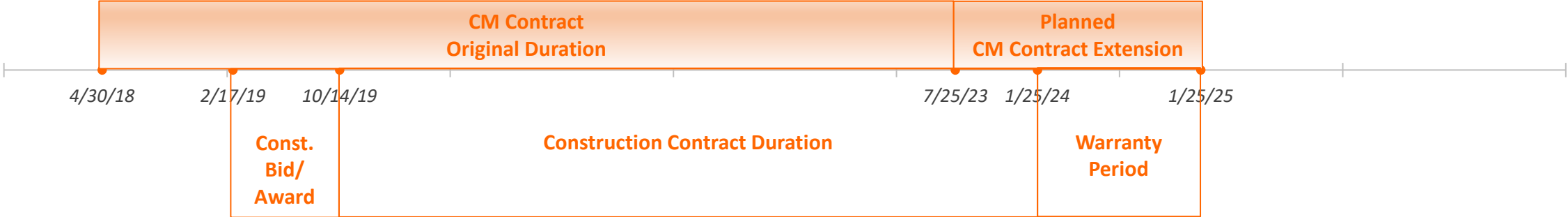


North City Water
Reclamation Plant
Construction
Progress Photo



BACKGROUND: PLANNED VS ACTUAL CONSTRUCTION SCHEDULE

Phase 1 Schedule at time of RFP (Dec 2018)



Phase 1 Current Schedule (as of Dec 2022)



*Construction Contract Duration is based off the longest Pure Water Phase 1 project contractual duration.



Projects & Tasks Order

Jacobs-CH2M Hill

1. Task Order 1 - Early/Core Construction Management
2. Task Order 2 - Constructability Review
3. Task Order 3 - Morena Conveyance Northern
4. Task Order 4 - Morena Pump Station & Pipelines
5. Task Order 5 - North City Pure Water Pipeline & AC1038
6. Task Order 6 – Subaqueous Pipeline
7. Task Order 7 - PWP Morena Conveyance South Middle & Morena Conveyance Bike Lane Project

Parson- Black & Veatch JV

1. Task Order 1 – Pre-Construction Management
2. Task Order 2 - Constructability Review
3. Task Order 3 - Early Site Work
4. Task Order 4 – Project Labor Agreement Admin
5. Task Order 5 – North City Pure Water Facility/North City Pure Water Pump Station
6. Task Order 6 – North City Pure Water Facility Expansion
7. Task Order 7 – North City Metro Biosolids Center Improvements
8. Task Order 8 – North City Water Reclamation Plant Flow Equalization Basin
9. Task Order 9 - Miramar Reservoir Pump Station & Generator
10. Task Order 10 - Peñasquitos Pump Station Oxygenation System

Additional Services

Jacobs-CH2M Hill

- Providing preconstruction services during delays due to AGC Lawsuit
- Additional Constructability review of plans
- PM Web scheduling software support
- Coordinating SDG&E design conflicts
- Material Sampling & Testing
- Field Surveying
- Aerial/Drone Photography
- Develop Monument Plan Sheets
- Risk Mitigation Advisor
- Project requiring Night Work for traffic control
- Repackaging of projects

Parson- Black & Veatch JV

- Providing preconstruction services during delays due to AGC Lawsuit
- CM services for additional projects
 - Peñasquitos Pump Station Oxygenation System project
 - Central Area Small Scale Facility (CASSF) at Pt Loma (Phase 2 Demonstration Plant)
 - Miramar Water Treatment Plant caustic pumping system and interim solids management.
- Additional Phase 1 Commissioning Services
- Review of Change Orders to identify potential specification issues for improvement of Pure Water Phase 2 bid documents.
- Claims management services

Terms Amendment is Seeking

Jacobs-CH2M Hill

- Contract extension of 3 years and 3 months
 - Revised Contract Duration:
 - 8 Years 3 months (expires 7/30/2026)
- Additional amount not to exceed:
 - \$40,000,000.00
 - Revised Contract Total: \$85,000,000.00

Parson- Black & Veatch JV

- Contract Extension of 36 months
 - Revised Contract Duration:
 - 8 years (expires 7/25/2026)
- Additional Amount not to exceed:
 - \$35,000,000.00
 - Revised Contract Total: \$110,000,000.00

EOC Goals

Subcontractor Participation

Jacobs-CH2M Hill

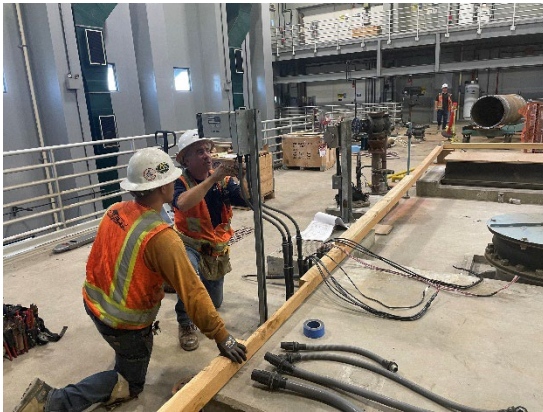
	This Amendment		Cumulative	
Total Certified M/WBE Participation	\$ 7,280,000.00	18.2%	\$ 11,555,000.00	13.6%
Total Certified Participation	\$ 13,280,000.00	33.2%	\$ 23,180,000.00	27.3%
Total Non-Certified Participation	\$ 7,040,000.00	17.6%	\$ 17,390,000.00	20.5%
Total Subcontractor Participation	\$ 20,360,000.00	50.9%	\$ 40,610,000.00	47.8%

Parsons Black & Veatch

	This Amendment		Cumulative	
Total Certified M/WBE Participation	\$ 525,000.00	1.50%	\$ 6,150,000.00	5.59%
Total Certified Participation	\$ 770,000.00	2.20%	\$ 9,395,000.00	8.54%
Total Non-Certified Participation	\$ 1,330,000.00	3.80%	\$ 14,415,000.00	13.10%
Total Subcontractor Participation	\$ 2,100,000.00	6.00%	\$ 23,025,000.00	20.93%

Job Safety (OCIP):

- Claims rate of 2.3 /100 full-time workers/year
 - industry standard is 3.9 claims; 60% of the standard



Metro Biosolids Center Construction Progress Photo

Metro Wastewater JPA TAC

**Amendment No. 2 to the Agreement with Parsons-Black & Veatch
Joint Venture for As-Needed Construction Manager - Treatment
Plant and Facilities Projects - Contract Number H176935**

&

**Amendment No. 3 to the Agreement with Jacobs-CH2M Hill
Engineers, Inc. for As-Needed Construction Management Services –
Conveyance Projects - Contract Number H176955**



Strategic Capital Projects Department



ATTACHMENT 5

SECOND AMENDMENT TO AGREEMENT WITH PARSONS-BLACK & VEATCH

(prof. const. mgt. svcs.
Pure Water Treatment
Plant & Facilities)

METRO JPA/TAC**Staff Report**

Date:

Project Title: Pure Water Program Extension to Parsons-Black & Veatch Joint Venture Contract**Presenter(s) Name:**

Abi Palaseyed

Presenter(s) Title:

Assistant Deputy Director

Requested Action:**Consideration and Possible Action to Recommend to the Metro Comm/Metro Wastewater JPA Approval of Second Amendment to the as-needed Agreement with Parsons-Black & Veatch professional construction management services for Pure Water Phase 1 Treatment Plant and Facilities****Recommendations:****Approve amendment**

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

Fiscal Impact:

Is this projected budgeted? Yes ____ No ____

Cost breakdown between Metro & Muni:	These as-needed services will be issued in dedicated task orders for each capital project or non-capital expenses. Non-capital expenses will use the default 38% 62% cost allocation for Pure Water expenses, which will be adjusted based on final cost allocation for the project. Capital expenses are allocated based on the capital work covered under the task order based on the utility system benefiting from the work.
Fiscal impact to the Metro JPA:	Capital costs are allocated to member agencies under their percentages under Exhibit G allocation, listed in the ARA as the Pure Water capital cost rate. All pure water O&M costs are tracked and will be cost allocated in the year in which they occur and a final allocation will be done after the completion of the capital project.

Capital Improvement Program:

New Project? Yes ____ No ____ N/A ____

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

Previous TAC/JPA Action:

None

Additional/Future Action:

Present item to Metro JPA/ Metro Commission in February 2023.

City Council Action:

City Council approval expected in March 2023.

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

The City entered into agreement with Parsons-Black & Veatch (Parsons-B&V) on July 25, 2018 for five years and \$75,000,000.00. The contract is for professional construction management services for Pure Water Phase 1 Treatment Plant and Facilities projects on an as-needed, hourly fee basis. Task Order scope and fees are negotiated by the City with Parson-B&V and their subconsultant and are based on the necessary resources and support services needed to hold contractors accountable for their construction work on Pure Water Phase 1. The Original fee total of \$75,000,000 was estimated using the information that was known at the time of the

Request for Proposal (RFP) in October 2017. Design of Pure Water Phase 1 treatment plant and facility projects had not been completed and design for some of the projects had not started. The RFP estimated the total construction cost for the Pure Water Phase 1 treatment plant and facilities to be approximately \$602,000,000, however, to date approximately \$735,000,000 has been awarded or is projected to be awarded. It was expected that Parsons B&V costs will rise as construction costs rise.

Additional scope items not included in the original contract but are included in this amendment are Phase 1 Commissioning Services in addition to what is provided in the current task orders, review of Change Orders to identify potential specification issues for improvement of Pure Water Phase 2 bid documents, claims management services, and construction management services for the additional projects for the Peñasquitos Pump Station Oxygenation System project, Central Area Small Scale Facility (CASSF) at Pt Loma (also called Phase 2 Demonstration Plant) and Miramar Water Treatment Plant caustic pumping system and interim solids management. To date, a total of ten tasks have been issued to Parsons B&V and six additional tasks are anticipated.

This is a planned amendment as it was known at the time of procurement that the overall schedule for Pure Water Phase 1, including construction contract durations, start-up and integration period, acceptance, mitigation and monitoring and warranty would exceed 5 years. Additionally, due to a lawsuit filed by the Associated General Contractors (AGC), the construction contracts delayed advertising as originally scheduled in the RFP by approximately one year and six months. The Projects originally began advertising in February of 2019. AGC filed an injunction against the City in June of 2019 and subsequently filed a lawsuit in October 2019 challenging the Pure water Construction Contracts. The City was not allowed to resume advertisement of the construction contracts until August 2020.

This amendment is requesting an additional three years for a total contract duration of eight years which covers the remaining construction contract durations, Pure Water Phase 1 start-up and integration period, acceptance, mitigation and monitoring, warranty period as well as the delays associated with the AGC lawsuit. This amendment is also requesting an additional \$35,000,000.00 for a total contract amount of \$110,000,000.00.

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

ATTACHMENT 9

METRO WASTEWATER FINANCIAL A. PARTICIPATING AGENCIES SELECTION PANEL ROTATION LIST

2023 MetroTAC Members

Chula Vista

Beth Gentry	619.476.2402	bgentry@chulavistaca.gov
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Coronado

Leon Firsht	619.359.9858	lfirsht@coronado.ca.us
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Del Mar

Joe Bride	619.981.1630	jbride!@delmar.ca.us
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El Cajon

Yazmin Arellano	760.427.3512	yarellano@cityofelcajon.us
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Imperial Beach

Juan Larios	619.525.2214	jlarios@imperialbeachca.gov
Eric Minicilli	619.628.1369	eminicilli@imperialbeachca.gov

La Mesa

Joe Kuhn	619.667.1340	jkuhn@cityoflamesa.us
Hamed Hashemian	619.667.1153	hhashemain@cityoflamesa.us

Lemon Grove

Izzy Murguia	619.824.3814	imurguia@lemongrovecalifornia.gov
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National City

Roberto Yano	619.336.4383	ryano@nationalcityca.gov
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Otay

Michael Long		mlong@otaywater.gov
Robert Kennedy	619.670.2273	bob.kennedy@otaywater.gov

Padre Dam

Paul Clarke	619.666.1188	pclarke@padre.org
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Poway

Alisa Nichols	619.871.7175	anichols@poway.org
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San Diego County

Peejay Tubongbanua	858.417.5628	peejay.tubongbanua@sdcounty.gov
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Metro TAC

Participating Agencies

Selection Panel Rotation

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

		Water (Mark Niemiec will participate)	
County of San Diego	Dan Brogadir	Request for Owner Controlled Insurance Program Interview (Pure Water)	2/25/19
Chula Vista	Frank Rivera Beth Gentry	Request for Owner Controlled Insurance Program Interview (Pure Water)	2/26/19
Imperial Beach	Eric Minicilli	RSP Metro Metering	4/22/2020
La Mesa	Hamed Hashemian		
Poway	Eric Heidemann Troy DePriest		
El Cajon	Dennis Davies Yazmin Arellano		
Lemon Grove	Mike James		
National City	Roberto Yano		
Coronado	Ed Walton		
Otay Water District	Bob Kennedy		
Del Mar	Joe Bride		
Padre Dam	Mark Niemiec Sen Seval		
County of San Diego	Dan Brogadir		
Chula Vista	Frank Rivera		
Imperial Beach	Eric Minicilli		
La Mesa	Hamed Hashemian		
Poway	Eric Heidemann Troy DePriest		
El Cajon	Dennis Davies Yazmin Arellano		
Lemon Grove	Mike James		
National City	Roberto Yano		
Coronado	Ed Walton		
Otay Water District	Bob Kennedy		
Del Mar	Joe Bride		
Padre Dam	Mark Niemiec Sen Seval		
County of San Diego	Dan Brogadir		
Chula Vista	Frank Rivera		
Imperial Beach	Eric Minicilli		
La Mesa	Hamed Hashemian		

ATTACHMENT 12C

2022 PURE WATER PROGRAM ANNUAL REPORT

METRO JPA/TAC
Staff Report
Date: 2/15/2023

Project Title:

City of San Diego Pure Water 2022 Annual Report

Presenter(s) Name:

Andrea Demich

Presenter(s) Title:

Assistant Deputy Director

Requested Action:

None- Information only

Recommendations:

None

Metro TAC:

N/A

IROC:

N/A

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

N/A

Fiscal Impact:

Is this projected budgeted? Yes ___ No x-N/A ___

Cost breakdown between
Metro & Muni:

\$0

Fiscal impact to the Metro
JPA:

\$0

Capital Improvement Program:

New Project? Yes ___ No ___ N/A X___

Existing Project? Yes ___ No ___ Upgrade/addition ___ Change ___

Previous TAC/JPA Action:

None

Additional/Future Action:

None

City Council Action:

Not being presented to City Council

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

A Pure Water Annual Report is provided each calendar year to comply with the Cooperative Agreement in Support of Pure Water San Diego. This is an informational presentation highlighting milestones and data provided in that report.

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

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

N/A

| Pure Water San Diego Program 2022 Annual Report

Public Utilities Department

Andrea Demich, Assistant Deputy Director



2022 Pure Water Milestones



Pipeline installation begins for the North City Pure Water Pipeline project



NCPWF begins construction of the superstructure for the major treatment and O&M buildings



Pure Water outreach team engages in five community events for the first time since the COVID-19 pandemic pause (7 total in 2022)



California National Resources Secretary, Wade Crowfoot, tours construction sites with Mayor Todd Gloria in recognition of the Governor's Water strategy; bids are advertised to construct a small-scale facility for Phase 2 of the program

March

June

September

August

November

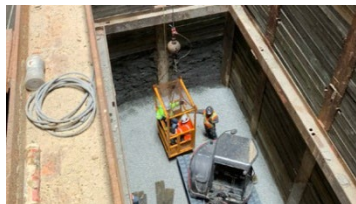
April

July

October

A total of \$664 million in low-interest State Revolving Loan Funds obtained from the State Water Board

Pipeline installation/excavation of tunnel shafts under I-805 begins for the Morena Northern Pipelines & Tunnels project; US EPA tours construction sites with Mayor Todd Gloria



Last two of ten major construction packages for Phase 1 begin construction: Miramar Reservoir Pump Station and the Morena Pipelines Southern/Middle Alignment

- 9 major construction contracts are underway
- Over 16,400 cubic yards of reinforced concrete have been poured at the treatment facilities required to produce purified water
 - *That's enough concrete to build 3.5 miles of a standard two-lane road that's 1 foot thick*
- Almost 2 miles of yard piping at treatment facilities have been installed
- Outreach is key!
 - Completed approximately 14 community presentations
 - Participated in 6 community events near construction
 - Distributed 41 e-blasts (newsletters), 40 notices, and 1,670 doorhangers.



- **Two new projects began in late 2022:**

- Morena Pipelines Southern/Middle Alignment
- Miramar Reservoir Pump Station

- **Morena Pump Station**

- Excavation completed for the junction chamber that collects flow from four sewers to feed to the pump station
- Rebar and formwork installed, and concrete pouring began
- Secant wall floor is being poured



Phase 1 Construction Takeaways

- **Morena Pipelines Northern Alignment & Tunnels**
 - 1,300 ft of 48" wastewater force main and 30" residuals line installed along Executive Drive and Genesee Avenue
 - 100-ft-deep shaft was excavated, which will launch the tunnel boring machine for the tunnel under I-805
 - Pipeline work along Genesee Avenue from Appleton Street to SR 52 began



- **North City Water Reclamation Plant & Flow Equalization Basin**
 - All elements under construction:
 - Primary sedimentation tanks
 - Bioreactor basins
 - Secondary clarifiers
 - Excavation, installation, and backfill of interconnecting piping was ongoing
 - Flow Equalization Basin excavation completed



Phase 1 Construction Takeaways

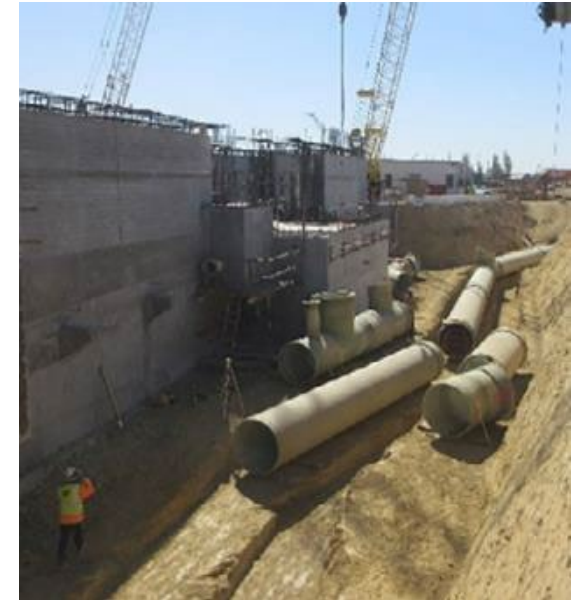
- **Metro Biosolids Center Improvements**

- Two new dewatering centrifuges were factory tested in November

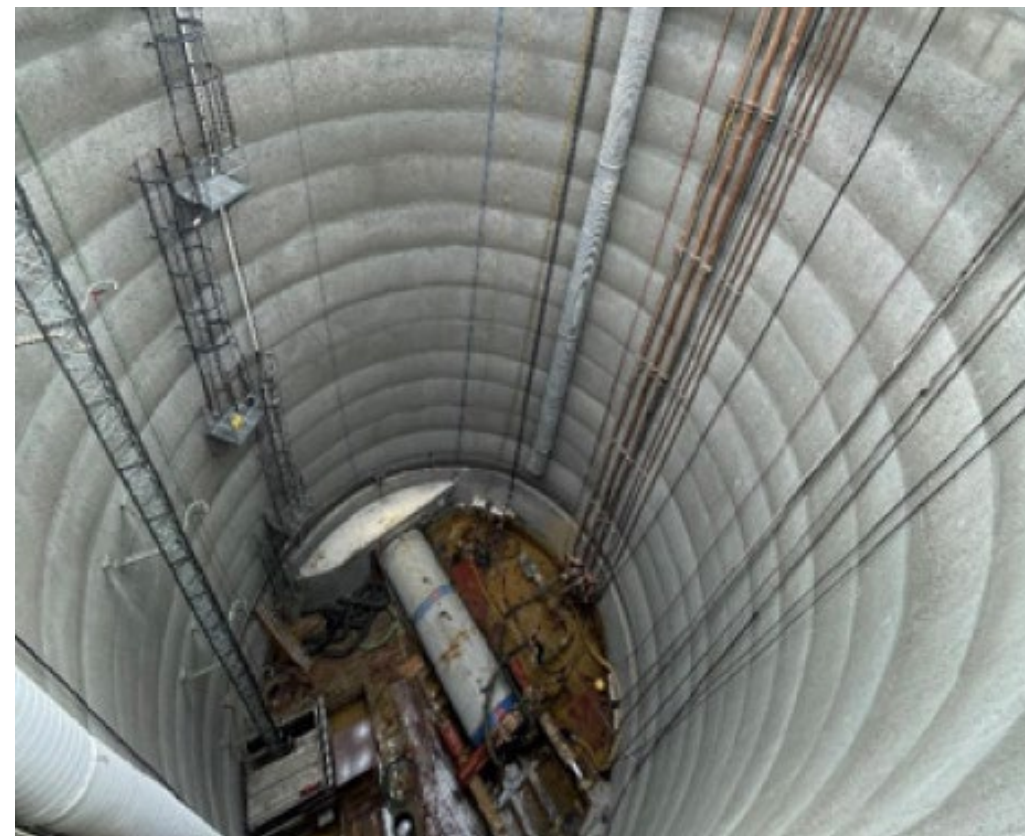


- **North City Pure Water Facility & Pump Station**

- Vertical walls constructed for:
 - Ozone contactors
 - Biological activated carbon system
 - Main process building
 - Operations and maintenance building



- **North City Pure Water Pipeline**
 - Over 4,200 ft of pipe was installed east and west of Interstate 15 and along Miramar Road
 - Shafts were constructed for tunnels under Scripps Lake Drive and into Miramar Reservoir
 - The tunnel under Scripps Lake Drive was completed



SD Construction Workforce

Hiring percentages by project, cumulative through October 2022

Project Name	Contractor	City Resident % (Goal = 35%)	Targeted Worker % (Goal = 10%)
North City Pure Water Facility and Pump Station	Shimmick Construction Inc.	27%	19%
Morena Pump Station	Flatiron West Inc.	26%	7%
North City Pure Water Pipeline, Dechlorination Facility and Subaqueous Pipeline	W.A. Rasic Construction	25%	23%
North City Water Reclamation Plant Expansion	Kiewit Infrastructure West Co.	23%	15%
North City Metro Biosolids Center Improvements	PCL Construction Inc.	21%	15%
North City Water Reclamation Plant Flow Equalization Basin	Kiewit Infrastructure West Co.	20%	46%
Morena Pipelines Northern Alignment and Tunnels	OHL USA Inc.	13%	22%
Pure Water Program Phase 1 Projects Total:		25%	17%

■ Loans

- USEPA WIFIA loans provide \$733.5 million for Phase 1 with low interest rates
 - \$614 million loan: 1.29%
 - \$119.5 million loan: 1.82%
- State Water Board signed four separate loans for a total of \$664 million
 - Interest rates range from 0.8% to 1.1%

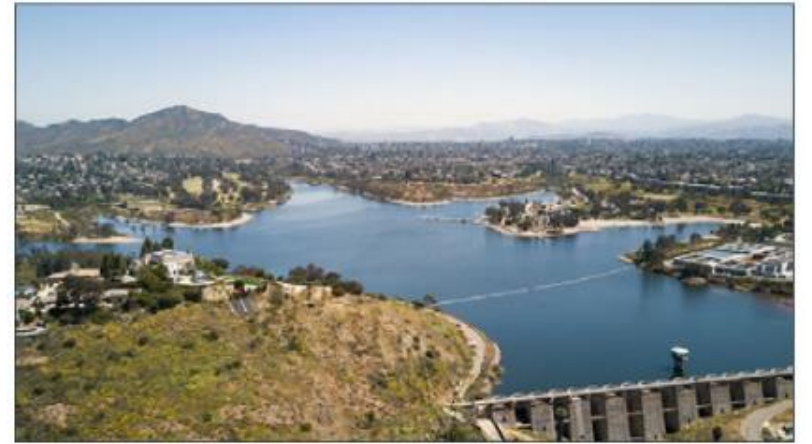
■ Grants

- The City has received \$81.5 million in grants



Phase 2 Planning

- **Reservoir Selection Options**
 - Murray Reservoir
 - San Vicente Reservoir
- **Regulatory Planning**
 - Independent Advisory Panel to provide insight on Phase 2 Concept Report/DPR
- **Small-Scale Demonstration Facility**
 - Advertised for bid
 - Operations to begin in 2024



Murray Reservoir, photo courtesy of SDFish.com



San Vicente Reservoir, photo courtesy of SDFish.com

- **O&M Readiness Plan**

- Hired and trained:
 - Pure Water Operations Supervisor: Process Control
 - Associate Management Analyst

- **Certification and Training**

- NCPWF Training Program (Classroom and Hands-on)
- AWT Certification Training



Regulatory & Environmental Progress



■ **PLWTP**

- RWQCB approved updated schedule

■ **Miramar Reservoir Permits**

- NPDES permit adopted in 2020
- Draft Operations Plan completed

■ **Potable Reuse Regulations**

- Potential DPR criteria must be adopted by December 31, 2023
- Proactively collaborating with regulators

■ **Environmental Compliance**

- Ongoing monitoring

- **Pure Water Demonstration Facility**
 - USBR grant-funded research
 - Evaluated the impact of bromide on reverse osmosis membrane oxidation and compliance with water quality regulations
 - Testing largely completed in 2022 and Report preparation is underway
 - Completed tracer test for NCWRP treatment to enhance treatment process LRV credits and provide flexibility



- **In 2022, public outreach included:**
 - Mayoral Tours
 - Press Events
 - Construction Outreach
 - Working Group Meetings
 - Industry Group Tours
 - Community Events
 - Speaker's Bureau Program
 - Demonstration Facility Virtual Tours
 - Industry Conference Participation

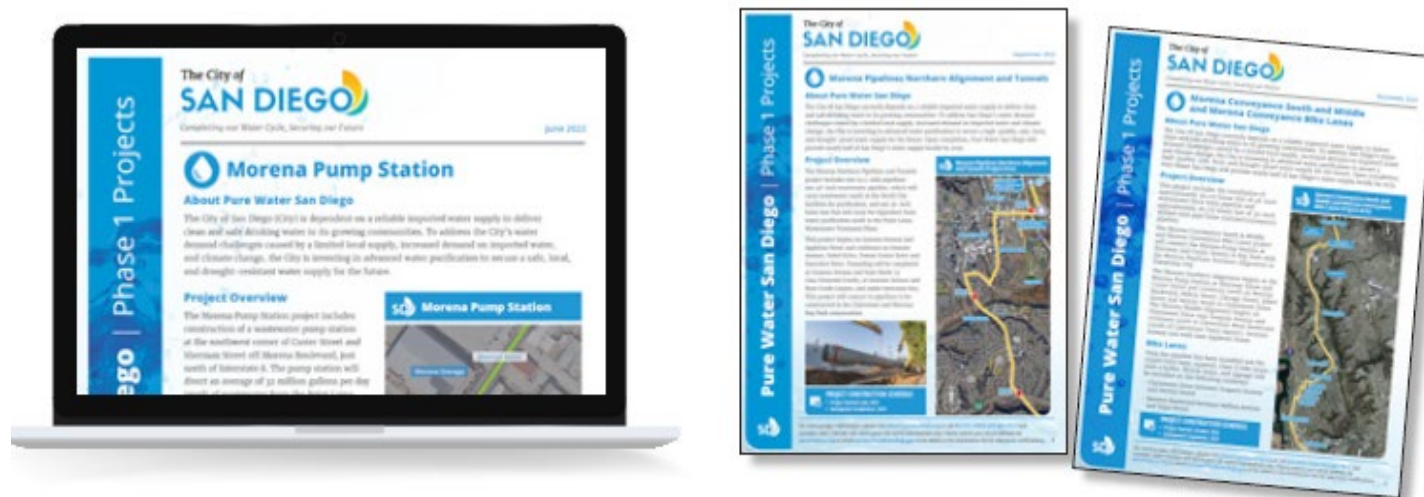


SD Public Outreach



- Developed a new Phase 1 North City interactive closure map
 - Users can quickly find information on road closures, detours and impact-related information by project
- Updated fact sheets in English and Spanish, refreshed presentations, and shared many newsletters

Visit PureWaterSD.org to learn more



Examples of project fact sheets (available in English and Spanish)

The City of San Diego continues to provide safe, high quality drinking water for its customers each and every day.



@PureWaterSD

Visit purewatersd.org to learn more about the Pure Water Program.

ATTACHMENT 16

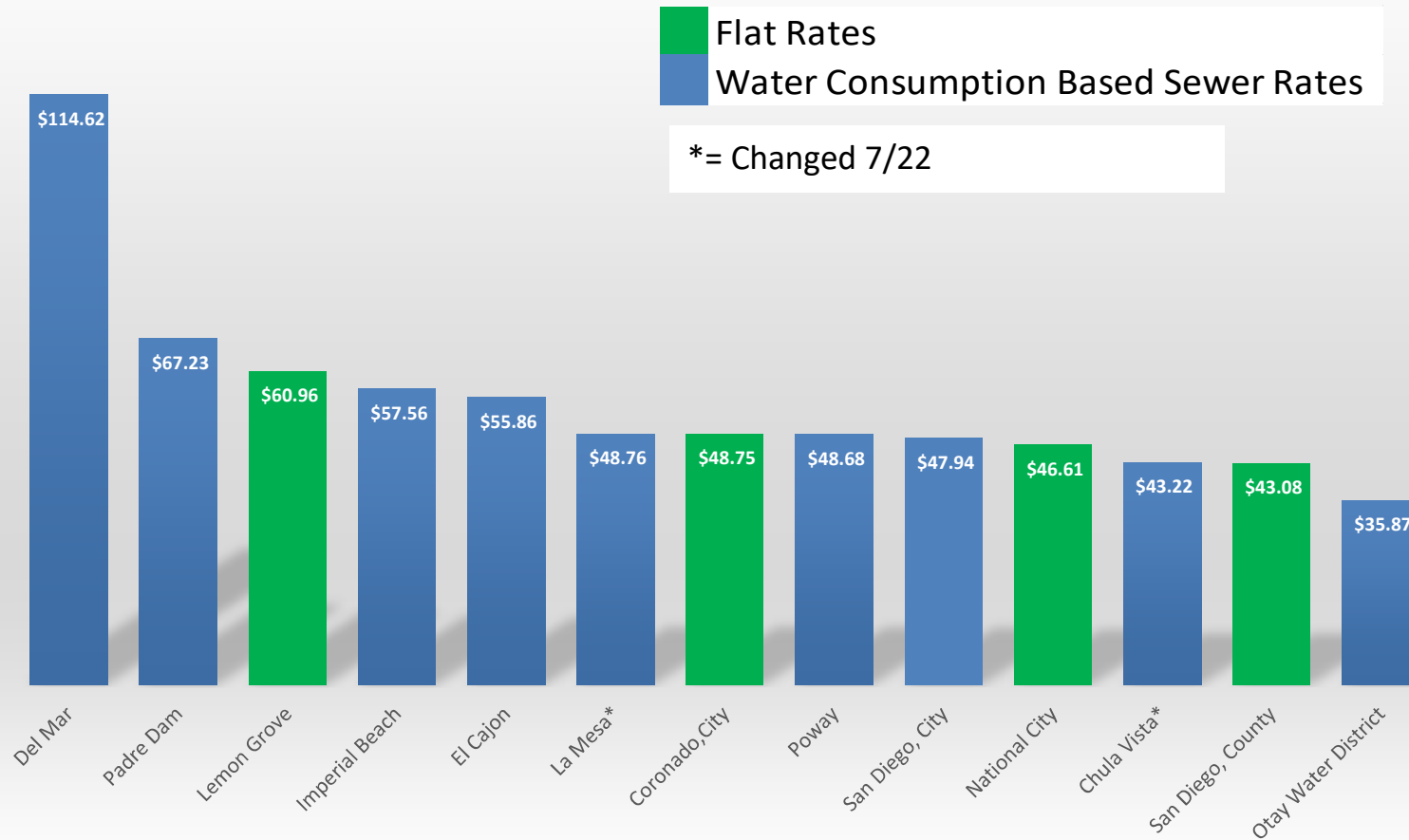
FY 2022 YEAR-END METRO TAC WORK PLAN



Metro TAC & JPA Work Plan
Active & Pending Items
December 2022 (Year-End)
Updated Items in Red Italics

Active Items	Description	Member(s)
<i>Metro JPA Pure Water AdHoc (2nd ARA)</i>	<i>JPA Board work group. Formed to review all items being negotiated in the 2nd ARA prior to going to the full Board. Meets every 2-3 weeks as needed. First meeting March 16, 2022. Has continued to meet until year-end.</i>	<i>Jerry Jones Marvin Heinze Gary Kendrick Ed Spriggs JPA Support staff</i>
IRWMP	JPA Members should monitor funding opportunities at: http://www.sdirwmp.org 1/21: Beth Gentry continues to give monthly TAC updates. Details can be found in minutes of each TAC meeting.	Beth Gentry Yazmin Arellano
Exhibit E Audit	1/21: FY2019 Exhibit E audit is in fieldwork stage. JPA team reviewing SD responses to sample questions. 4/11/2022: FY2019 scheduled to complete April/May 2022; FY 2020 audit final field work completed. Owner controlled insurance program (OCIP) detail discussion. 6/13/22: FY 2021 Entrance Conference 7/14/22: FY2019 Audit received 8/22: FY2019 audit approved and reconciliation complete. OCIP meeting held.	Lee Ann Jones-Santos Karyn Keese Dexter Wilson
Industrial Wastewater Control Committee	Formed to work with San Diego on new standards for industrial waste discharge and cost allocation of same. 1/2021: SD is trying to formalize a pretreatment rate case and has hired a consultant. Monthly updates are presented at TAC and JPA. 3/16/2022: Monthly meetings to discuss the pretreatment agreement and considerations for the 2nd ARA, reviews of local limits, and the industrial user permit fees and program	Beth Gentry Interested JPA members Dexter Wilson SD Staff & Consultants
Emergency Mutual Aid Committee	Formed with the intent the sharing of resources during an emergency. First draft was completed and the next draft will be circulated for interested agencies. 12/22: Monthly updates given by Peejay Tuongbanua at Metro TAC meetings.	Peejay Tuongbanua Steve Beppler, Yazmin Arellano, Mike James Hamed Hashemian
Phase I Financial Implementation Working Group (FIG)	This working group was formed to continue to work on Section 2.9.1 and other financial implementations issues in Exhibit F associated with the Amended Restated Agreement. 1/2021: Group will start meeting once the ARA is fully signed (January 2021) on a regular basis with a goal to complete all tasks by 1/2022. 3/16/2022: Group continues to meet every two weeks.	Karyn Keze Dexter Wilson SD staff & consultants
2 nd ARA Negotiating Team	This group was created to negotiate the 2 nd Amended Restated Agreement (2nd ARA) which will incorporate the completed financial and other items from the first ARA. 3/16/2022: Negotiating Team meets every 3 weeks to follow through with topics raised during the First ARA.	Dexter Wilson Beth Gentry Yazmin Arellano Karyn Keze Scott Tulloch SD staff & consultants
Changes in wastewater/water legislation	NOTE: Procopio, Metro TAC and the Commission/JPA 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. 12/22: 2023 Update received.	Procopio JPA members as appropriate

Sewer Rate Comparison: Metro Participating Agencies
Single Family Monthly Rates Based on 7 HCF Water Usage
Effective January 1, 2022 for FY 2023



Sewer Rate Comparison: Metro Participating Agencies
Single Family Monthly Rates Based on 7 HCF Water Usage
Effective January 1, 2023 for FY 2023

