



**METRO TAC AGENDA**  
**(Technical Advisory Committee to Metro JPA)**

**TO:** Metro TAC Representatives and Metro Commissioners

**DATE:** Wednesday, October 20, 2021

**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 September 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 Staff by Monday, October 18, 2021 at 5:00 p.m. If you do not receive the e-mail, please contact Lori Peoples at [lpeoples@ci.chula-vista.ca.us](mailto:lpeoples@ci.chula-vista.ca.us) PRIOR to the meeting date

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1. Review and Approve MetroTAC Action Minutes for the Meeting of September 15, 2021 (**Attachment**)
  2. Metro Commission/JPA Board Meeting Recap (Standing Item)
  3. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA, Approval of the Metro Wastewater JPA Two-Year Audit for FY 2018 and FY 2019 (Karen Jassoy/Lee Ann Jones-Santos/David Forman, Principal CLA, LLP) (**Attachments**)
  4. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA, Approval of the Metro Wastewater Joint Powers Authority Treasurer's Report for the Year-Ended June 30, 2021 (Karen Jassoy/Lee Ann Jones-Santos) (**Attachment**)
  5. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro JPA Draft Revisions to Section 2.8.2 of the Amended Restated Agreement to Allow for a Single Reconciliation of Shared Pure Water Program Expenses at Phase I Project Completion. (Adam Jones/Dexter Wilson/Karyn Keze) (**Attachment**)
  6. **PRESENTATION:** Point Loma Wastewater Treatment Plant Facilities Condition Assessment Report (Tom Rosales/Dean Gipson/Mandira Sudame/Michael Flores/Doug Owen) (**Attachments**)
  7. **PRESENTATION:** Central Area Phase 2 Concept Evaluation Lake Murray and San Vicente Reservoir Release (John Stufflebean) (**Attachment**)
  8. **PRESENTATION:** Metro Flows and Strengths 2050 (Dexter Wilson) (**Attachment**)
  9. **UPDATE:** Proposed Mutual Aid Agreement with Wastewater Agencies (Peejay Tubongbanua)

10. **UPDATE**: Industrial Wastewater Control Committee (Beth Gentry)
11. **UPDATE**: Metro Wastewater (Financial) (Standing Item) (Edgar Patino/Adam Jones)
12. **UPDATE**: Metro Wastewater (General) (Standing Item) (Tom Rosales)
  - a. Replacement of Pt. Loma Treatment Plant Road
  - b. April 10, 2020 Spill Update
13. **UPDATE**: Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung) (PRESENTED LAST MEETING)
14. **UPDATE**: Pure Water Program (Standing Item) (John Stufflebean)
15. **UPDATE**: Financial (Standing Item) (Karyn Keze)
16. **REPORT**: IRWMP Update (Standing Item) (Beth Gentry)
17. MetroTAC Work Plan (Standing Item) (Roberto Yano) (**Attachment**)
18. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (**November 4, 2021**)
19. Other Business of Metro TAC
20. **DISCUSSION**: Potential Closed Session Item for Upcoming Metro JPA Meeting (Participating Agency Representatives Only)
21. Adjournment ([To the next Regular Meeting November 17, 2021](#))

**Metro TAC 2021 Meeting Schedule**

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

# ATTACHMENT 1

## ACTION MINUTES FOR THE MEETING OF SEPTEMBER 15, 2021



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

**ACTION MINUTES**

**DATE OF MEETING:** September 15, 2021

**TIME:** 11:00 AM

**LOCATION:** Zoom Meeting held On Line

**MEETING ATTENDANCE:**

**Members Present**

Beth Gentry, Chula Vista  
Ed Walton, Coronado  
Yazmin Arellano, El Cajon  
Dennis Davies, El Cajon  
Hamed Hashemian, La Mesa  
Mike James, Lemon Grove  
Roberto Yano, National City  
Robert Kennedy, Otay WD  
Steven Beppler, Otay WD  
Mike Hindle, Padre Dam MWD  
Angela Martinez, Poway  
Jessica Parks, Poway  
Dan Brogadir, County of San Diego  
P.J. Tubongbanua, County of San Diego

**San Diego City Staff/Consultants Present**

John Stufflebean, City of San Diego  
Tom Rosales, City of San Diego  
Edgar Patino, City of San Diego  
Charlette Strong Williams, City of San Diego  
Adam Jones, City of San Diego  
Tung Phung, City of San Diego  
Joyce Newman, City of San Diego  
  
Doug Owen, Stantec

**Staff/Consultants Present**

Karyn Keze, the Keze Group  
Scott Tulloch, NV5  
Carmen Kasner, NV5  
Dexter Wilson, Wilson Engineering  
Lori Anne Peoples, MetroTAC  
Lee Ann Jones-Santos, Metro Treasurer

**1. Review and Approve MetroTAC Action Minutes for the Meeting of July 21, 2021**

**ACTION:** Motion by Bob Kennedy, seconded by Beth Gentry, the Minutes be approved.  
Motion carried unanimously.

**2. Metro Commission/JPA Board Meeting Recap**

The Metro JPA did not meet, thus there was no report.

**3. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA, Approval of California Water Technologies LLC Contract for Ferrous Chloride for use at Water Treatment Plants over next 5 Years**

Craig Boyd, City of San Diego provided a brief overview of the staff report which was attached to the agenda.



**ACTION:** Motion by Bob Kennedy, seconded by Beth Gentry, the contract be approved to forward to the JPA. Motion carried unanimously.

**4. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA, Approval of Hawthorne Machinery Company Contract for Parts, Technical and Repair Services for Caterpillar Co-Generation Engines, Backup Generators, and Associated Switchgear located at Various Public Utilities Facilities**

Craig Boyd, City of San Diego provided a brief overview of the staff report which was attached to the agenda.

**ACTION:** Motion by Beth Gentry, seconded by Bob Kennedy, the contract be approved to forward to the JPA. Motion carried unanimously.

**5. DISCUSSION /ACTION: Consideration and Possible Action for the Establishment of a MetroTAC Working Group (CV, LM, NC expressed interest) on the Proposed Mutual Aid Agreement with Wastewater Agencies**

Chair Yano noted this was discussed at the last meeting and there was some interest among the PAs. The County was asked to take the lead on this. Pee Jay Tubongbanua, County of San Diego provided an overview of the item. Chula Vista, Lemon Grove, National City and the San Diego County Sanitation District had expressed an interest in doing a Mutual Aid Agreement to assist in emergency situations and share resources. Back in July 2003 an agreement was developed but not fully executed and was shared by the City of El Cajon (copy attached as Exhibit A to these minutes) and has the basis of the development of a Mutual Aid agreement between PAs. It also discusses the definitions for assistance required. The County would like to pursue this with other interested members. There are a lot of provisions to review, limitations of what could be spent, descriptions of authorizations, maximum cumulative amount and indemnification that need to be resolved. A formal agreement would be a good tool in the event of an emergency to help each other out. Peejay requested anyone interested in participating let him know and stated that San Diego Sanitation District would be actively participating in the development of the agreement. Poway, El Cajon, Coronado, Lemon Grove and Padre Dam expressed interest in addition to Chula Vista, National City and La Mesa. Hamed from La Mesa inquired as to whether they should consider going through the County EOC. Roberto noted that normally the County EOC was specific to first responders and requested Hamed bring this thought forward to the first meeting. Jessica from Poway noted that there are times that there are emergencies when the County EOC is not open such as when they had to go to the boil water emergency and had to go out to the other water agencies to get mutual aid agreements. Thus she felt a Mutual Aid Agreement would be of benefit regardless. Karyn requested from Peejay, that once the group was formed he let her know of the members and the chair will be plus a two sentence description of what the work was going to be so she could add it to the Work Plan. Robert Kennedy from Otay Water District stated he thought they already had a Mutual Aid Agreement with the County. Roberto asked Peejay to work to schedule a first meeting and then the group could take it from there.

**6. UPDATE: Industrial Wastewater Control Committee**

Beth Gentry provided an update on the following attachments to the agenda:

- a. Follow Up Performance Audit PUD IWCP Part I
- b. Follow Up Performance Audit PUD IWCP Part II
- c. Industrial User Fee – SD Outreach
- d. Memo to Chair Jones – Industrial Wastewater Discharge Permit Inventory Status

Beth stated the committee met August 17<sup>th</sup> and then went through a couple months of updates. Notification was sent out to the Muni customers with September 21 as the date San Diego sent for the Public Hearing. September 8<sup>th</sup> notification was sent to the PAs and permit holders (included in agenda packet). Staff recommendation on the information going out was to maintain the current rate until July 1, 2022 and then fee will then go up with the cost recovery being in 25% increments over the course of four years with total cost recovery happening in year four.

They discussed the pre-treatment agreement and the goal of standardizing the pre-treatment which was a parking lot item in the amendment. Procopio drafted an agreement which has been a great start. The committee is receiving comments and will then have a follow-up meeting to revise the draft and address comments followed by discussion with the PAs and Procopio. The week of October 11<sup>th</sup> they plan to bring the City of San Diego in and kick off the coordination. The plan is to hopefully have conceptual agreement between everyone in January 2022 and then the next two months work out the details and finalize in March then take to the TAC and JPA for review.

Concept items are being worked on such as definitions, goals, responsibilities, authorities and how to address billing. August 22, 2022 (30 days after the City of San Diego signed the Amended Restated Agreement) is the official date to have the amended restated agreement finalized.

Beth asked if anyone had anything additional to add to make sure everyone was heard at this point. No comments were received.

Beth then stated that at the August 5<sup>th</sup> JPA meeting Chair Jones requested an update on the industrial wastewater discharge permit inventory assessment and a memo has been included in the agenda along with the performance audits that were done by the City of San Diego which address this.

Lastly she has been involved in coordination with the City of San Diego on the industrial discharge permitting process and making sure all dischargers that need to be permitted are. This process could be as simple as the PAs informing the City of San Diego of any new customers who may need permitting as well as those who do not. It is required per the audit to make sure the San Diego program is comprehensive.

Brown and Caldwell will provide updates at the October or November Committee meetings on the local limits which will be then be brought back to TAC for review.

Upcoming items are on September 27<sup>th</sup> review of the draft agreement PAs only followed by October 12 review of the draft agreement with City of San Diego.

## **7. Metro Wastewater Update (Financial)**

Edgar Patino, City of San Diego stated he had nothing new to report. Adam Jones, City of San Diego stated staff was working on the ongoing strength base billing RFP and will be able to provide more information regarding the process by the next meeting. He thanked Karyn Keze and Dexter Wilson for their participation in the process.

## **8. Metro Wastewater Update (General)**

Tom Rosales; City of San Diego provided a brief report covering the following:

### **a. Replacement of Pt. Loma Treatment Plant Access Road**

1. Monitoring plan completed final review last month by all parties
  - Topo surveys
  - Visual inspections
  - Drone imagery surveys
  - Drone LIDAR surveys
  - Geophysical investigations (surface waves and electrical resistivity)
  - Groundwater monitoring
  - Shape array ground movement monitoring (displacement and deformation)
2. NPS completed its consultations with State Historical Preservation Office about project and cultural resource impacts
3. City will be submitting a Research and Collection permit for approval by NPS to perform monitoring
4. Held meeting yesterday w/City staff and consultant to discuss logistics for installing data collection platform (hardware, radio signals, software, security protection, network sharing, etc.)
5. Setting up meeting for week of Sept. 27 to discuss and establish trigger/action level responses for shape array information – will provide action level guidance through an Emergency Response Plan managed by PUD Staff. Network dashboard will inform all users
6. Finalizing sole source contract between PUD and HDR
7. Had established a November 1 date for everything to be in and operational; date likely to slide
8. Once underway, discussions will begin developing long term solutions

Karyn inquired as to why HDR was sole source and if they were on the City as needed list. Tom responded that HDR was a Consultant on the City's as needed agreement and getting to this point PUD had to tap into that agreement to the extent where they were out of money and since HDR has the expertise on all of this, they decided to create a separate agreement just with HDR on a sole source basis and they had the support for this portion. Longer term he envisions doing an RFP for the longer term idea. Karyn then asked if the sole source contract was in the range that would eventually come to MetroTAC for approval. Tom will check to see if the JPA has any involvement in that cost.

Beth asked if they could see any correspondence with the Regional Board staff. Tom stated he had just had phone conversations with them and no written correspondence.

b. April 10, 2020 Sanitary Overflow Incident Update

Tom provided a brief oral update noting that he had a call with the Regional Board staff about 3 weeks ago following up on questions just related to the City of San Diego's Capital Improvement Projects related to the spill location and Pump Station 1. That will be followed by an on site visit tomorrow by the Regional Board and staff and they will finally take all that information and act thereafter.

Roberto requested Tom bring this information forward to the next JPA meeting.

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

Tung Phung, City of San Diego provided an overview of the Metro projects for the FY 2021 4<sup>th</sup> Quarter (copy included in the agenda) including expenditures and a list of the active CIP projects, currently totaling 13 of which one was completed and four were under construction and one in the award process and 7 currently in design.

Bob of Otay Water District inquired as to whom the consultant was who did the design and that missed the items resulting in change orders. Tung stated he would provide Bob with that information.

**10. Pure Water Program Update**

John Stufflebean, City of San Diego noted that OPRA II was still in the Senate and hasn't moved; Phase 1 construction continues and are now rolling along especially on the Pure Water Plant; they just put out to bid the 9<sup>th</sup> contract which is the Marina alignment which is \$80M and there are 2 more to go being the Marina northing alignment and the Miramar Pump Station; concerns still remain with utility issues with SDG&E and materials supplies due to COVID, steel is the big one which they are working through with contractors. They are also working with the Miramar Water Treatment Plant to make sure they are prepared to handle Pure Water when it comes into the Miramar Reservoir, modification need to be made to some of the treatment processes and level issues. Phase II they initiated the effort on the demonstration plant at the Pt. Loma Plant; have reinitiated the independent advisory panel who will meet next week to discuss Phase II issues; meeting every other month with the Department of Fish and Water on Phase I and II and direct potable issues; continuing the process to decide in Phase II which reservoir to go to and the operational issues with those. Lastly, they are working with the stormwater department to analyze the use of stormwater use in the Pure Water Facility, and working with East County on the reimbursement agreement related to the brine line.

Roberto requested John put together a table so that they can better understand what projects are out etc. John replied in the affirmative.

**11. Financial Update:**

Karyn Keze stated that the 2019 Audit is nearing completion. They originally had a completion date of September/October and inquired of Edgar Patino what the updated date was. Edgar Patino, City of San Diego stated they were still putting the finishing touches on the audit and then it would go to NPO for their review. He will provide an updated timeline at the October meeting.

Next Karyn stated that she and Dexter were waiting to receive their huge boxes of samples

to review and thanked Deborah Campbell, City of San Diego Audit Team Lead for taking care of those for them. She and Dexter will provide a status report at next months meeting.

Karyn then announced that the transition of Treasurer is now complete with Lee Ann Jones-Santos who is now in the Finance Department of the City of El Cajon and requested consultants send their bills to El Cajon starting in September. Lee Ann introduced herself and stated that she would be processing payments for the bills at the end of each month.

Also, she thanked Adam Jones of the City of San Diego for giving her and Dexter all the courtesies they have given them in the process and she is looking forward to the outcome of that work.

Karyn then reminded the TAC that she was hoping to update the Work Plan and requested they forward their resolutions or ordinances that updated their single family rates to her for inclusion.

## **12. REPORT: IRWMP - Integrated Regional Wastewater Management**

Beth Gentry; City of Chula Vista provided the following report:

The IRWMP met on 8/4/2021.

Presentations were received on the San Pasqual Groundwater Sustainability Plan and the Hydraulic Chart Provisions of a couple of the groundwater basins.

The Statewide IRWM funding update included a May revised budget of \$5.1 billion for water infrastructure focusing on drought response and climate resilience. The SB129 budget was \$200 million the multiple benefit project would include IRWM. They are still working on how to translate that to each of the IRWM regions. The San Diego Water Authority is advocating for a more inclusive approach trying to use the equity of IRWM as a way of getting funds which would be beneficial to the TAC to have more access to regional funding. This is good news on the budget side.

Funding opportunities: Prop 1 Round 2 – Tentative - DWR is scheduled to have a draft PFP this summer with final PFP proposed at the end of 2021 which means the IRWM would start processing grants when the draft comes out.

Beth stated she would send out in her write up current funding opportunities and the justice, equity, diversity & inclusion to ensure everyone has an opportunity to get funding.

The next meetings are scheduled for October 6<sup>th</sup> and December 1<sup>st</sup>.

## **13. MetroTAC Work Plan**

Roberto Yano MetroTAC Chair stated the Work Plan was attached to the agenda and noted that Karyn was in the process of the update. Additionally, Lori noted that Nick was working on sending out the Amended Restated Agreement. An Ad Hoc committee was formed by the JPA and Roberto is going to recommend it is eliminated and if any issues come up that require an Ad Hoc he will then recommend the forming of a new one.

#### **14. Review of Items to be Brought Forward to the Regular Metro Commission/Metro Wastewater JPA Meeting October 7, 2021**

Roberto noted that he had items 3, 4, 6, 8, 9, 10 & 11 moving forward to the JPA.

#### **15. Other Business of MetroTAC**

Roberto opened the floor to share if there were any COVID related issues for the good of the group such as are offices open as you move forward from vaccination to next variant and how it is being handled. National City is still fully open, some of the office people were telecommuting and they are considering opening telecommuting again. Yazmin stated that El Cajon was completely open. Dan from the County stated that the field crews never stopped working out in the field. The engineering and admin staff are on a hybrid schedule of 3 days in office 2 days out but they are fully open to the public. The County has a policy mandating vaccinations or you are subject to testing. The Board is meeting in person with the public in the chambers. Hamed stated that La Mesa was also open and fully staffed but due to COVID and the applications through websites seem to be working. There are walk-ins by appointment but it seems more or using the on line application process.

Dexter noted they will be coming back next month with the Point Loma Condition Assessment Report which he is just starting his review of and will probably be bringing average and peak flow numbers for the agencies to start reviewing for the alternative billing methodology.

Bob from Otay inquired of the County as to whether this new MEHKO (Micro enterprise home kitchen enterprises) process will impact the PAs and how the County will be monitoring them. Dan responded that the County Board is studying and may adopt this item from the State which will impact residential zones. The limit is a maximum of 60 per week or 30 in one day. They can prepare for pick up, take out and on site serving. They will also be able to get a liquor license. Implementation will affect environmental health and quality as well as public health and the sewer side all of which will fall on each of the PAs. The County of San Diego Environmental Health Department will comment on what homes have this service but they won't monitor, regulate or control grease traps etc. Another issue he has raised is the rate structure and the potential need for a new classification. County Environmental Health is leading the ordinance effort and is very welcoming to input from the PAs and he can put everyone in contact with them. The initial board action is in October sometime and the outcome will be the Board directing staff to come up with an ordinance within a specific time. Karen noted that when she lived in Julian there was a huge issue due to all the apple pie baking. Dan stated he did not know how much could be baked or cooked but there is that limit. A commercial entity will fall under regular restaurant requirements.

Peejay shared that the County still has a program for emergency rent and utility assistance for COVID.

#### **16. Adjournment to the Next Regular Meeting August 18, 2021**

There being no further business; MetroTAC Chair Roberto Yano adjourned the meeting at 12:17 p.m.

# EXHIBIT A

## 2003 DRAFT MUTUAL AID AGREEMENT

## **San Diego County Public Wastewater Agencies**

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### **Mutual Aid Agreement**

THIS AGREEMENT is made and entered into as of July 1, 2003 by and among the Cities of Chula Vista, Coronado, Del Mar, El Cajon, Escondido, Imperial Beach, La Mesa, National City, Poway, Lemon Grove Sanitation District, San Diego, the County of San Diego, the Otay Water District, and the Padre Dam Municipal Water District, each of said public agencies being a "Party" and all said public agencies being herein referred to collectively as "the Parties."

WHEREAS, the Parties intend to share designated services and resources which each has available to complete routine business and to assist in the event of emergencies; and

WHEREAS, the purpose of this Agreement is to memorialize the Parties' understanding specifying the designated services and equipment, which the agencies are agreeing to share, and to provide the terms and conditions pursuant to which the service and equipment will be shared; and

WHEREAS, some of the Parties may have previously entered into an emergency mutual aid agreement with one or more of the other Parties, in which event the prior emergency mutual aid agreement shall be controlling for all purposes;

NOW, THEREFORE, in consideration of the mutual covenants and conditions herein contained, the Parties hereby agree as follows:

#### **ARTICLE I - DEFINITION OF EMERGENCY AND REQUEST FOR ASSISTANCE.**

A wastewater emergency is a major infrastructure equipment or process failure or supply shortage or other plant disruption that is, or is likely to be, beyond the capability of the immediately available services, personnel, equipment, supplies and facilities of the Party requesting assistance.

Hereinafter, the Party rendering assistance is referred to as LENDER, and the Party receiving assistance is referred to as BORROWER.

ARTICLE II - GENERAL NATURE OF ASSISTANCE. Assistance will generally be in the form of resources such as equipment, supplies, and personnel. Assistance shall be given to the extent LENDER determines that its own needs can continue to be met. A potential LENDER shall not be held liable for failing to provide assistance. A potential LENDER has the absolute



discretion to decline to provide any requested assistance. Resources are to be made available on a loan basis, with repayment terms, to be agreed upon, varying with the type of resource. Each Party agrees to provide up-to-date information on an annual basis of its resources that may be available for assistance. In the event that the LENDER and the BORROWER have in place a separate mutual aid agreement, governing the conduct of those parties, the separate mutual aid agreement shall govern and control the conduct of the LENDER and the BORROWER in making a request for emergency assistance and providing a response to such a request.

ARTICLE III – REQUESTS FOR ASSISTANCE. Requests for emergency assistance under this agreement shall be directed to the Department Head or designated representative of the appropriate department of LENDER.

ARTICLE IV - LOANS OF EQUIPMENT. Use of equipment such as service equipment, construction equipment, pumps, or maintenance trucks shall be at LENDER's current equipment rate and subject to the following conditions:

- a) Upon receipt of a request identified in Article III above, the LENDER shall prepare a document describing the items being loaned. The BORROWER shall execute an acknowledgement of receipt of the equipment or services upon delivery or performance.
- b) At the option of the LENDER, loaned equipment may be loaned with an operator.
- c) Loaned equipment shall be returned immediately to LENDER when the LENDER requests it or when an emergency is over, whichever is sooner.
- d) BORROWER shall, at its own expense, supply all fuel, lubrication, and maintenance for all loaned equipment. Documentation and maintenance records shall be provided for the LENDER, if requested, with the returned equipment.
- e) LENDER's costs related to the transportation, handling and loading/unloading of equipment shall be chargeable costs to BORROWER.

- f) Loaned equipment if damaged or lost by BORROWER shall be repaired or replaced as soon as possible by BORROWER to the satisfaction of the LENDER, excepting wear and tear in the normal course of use of the equipment. The cost of repairs shall be the responsibility of the BORROWER causing the damage.
- g) A return receipt shall be executed by the LENDER upon return of any items, equipment, supplies or personnel to the BORROWER, acknowledging the return of the equipment, supplies or personnel, and noting any damage or injury thereto, or loss thereof.

ARTICLE V – PERSONNEL. LENDER may make available to BORROWER such employees as are willing to participate and have the necessary skills. An employee “borrowed” pursuant to this agreement shall, to the extent possible, work under the supervision of his/her own employer, who shall remain liable for any Worker’s Compensation award. Personnel of the LENDER operating loaned equipment shall be considered “borrowed” personnel.

ARTICLE VI – COMPENSATION. BORROWER shall compensate the LENDER for the equipment utilized as set forth in the latest version of the Rate Schedule included herein as Exhibit 1, which may be amended from time to time by substituting a subsequently dated Exhibit. Following the return of the equipment to the LENDER a statement of use shall be prepared by the BORROWER and submitted to the appropriate Department Head of the LENDER. BORROWER shall reimburse LENDER in kind or at actual replacement costs plus handling charges, at the LENDER’s option, for use of expendable or non-returnable supplies such as chemicals or pipes cut to size. For any Emergency Request event occurring under this Agreement, no LENDER shall lend personnel, equipment, or supplies to a BORROWER which cumulatively exceeds an estimated worth of \$500,000.

Other supplies and reusable items such as valves or fittings that are returned to LENDER in a clean, damage-free condition shall not be charged to the BORROWER and no rental fee will be charged; otherwise, they shall be treated as expendable supplies. Cost to feed and house loaned personnel, if necessary, shall be chargeable to and paid by the BORROWER. Labor costs shall be equal to the LENDER employee’s current salary or appropriate hourly wage (including overtime, if applicable) plus fringe benefits and overhead. Should the LENDER require the use of the

equipment or services which it has provided to the BORROWER during the period of use, and if BORROWER is unable or unwilling to return the equipment or services, then the LENDER shall be reimbursed by the BORROWER for costs incurred by the LENDER to rent or lease replacement equipment. The LENDER shall prepare and send an invoice to the BORROWER and payment shall be made by the BORROWER within 30 days of receipt of the invoice.

ARTICLE VII - INDEMNIFICATION. Each Party and their respective elected and appointed officials, officers, agents and employees (when acting as a BORROWER) hereby agrees to defend, indemnify and hold the other Parties, and their respective elected and appointed officials, officers, agents and employees (when acting in the capacity of LENDER to the BORROWER) harmless from any and all claims, demands, causes of action, damages, costs and expenses, including attorneys' fees, property damage, bodily injury, personal injury, losses or liabilities, in law or in equity, of every kind and nature, due to any case whatsoever arising out of, or in any manner directly or indirectly connected with its use of the LENDER's equipment and services provided for in this Agreement which is not the result of or caused by the negligence, omission or intentional misconduct of the LENDER, or its elected or appointed officials, officers, agents or employees.

ARTICLE VIII - MODIFICATIONS AND OTHER PROVISIONS. Any provision of this Agreement may be modified, altered or rescinded by mutual written agreement of all the parties, attached to and incorporated in this Agreement. This Agreement is not transferable or assignable, in whole or in part, and is subject to cancellation at any time by any party upon written notice delivered or mailed to each of the other parties.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first herein above written by their respective officer thereunto duly authorized. This Agreement is being executed in counterparts. This Agreement shall become operative as soon as one counterpart hereof has been executed by each party. The counterparts so executed shall constitute one Agreement notwithstanding that the signatures of all parties do not appear on the same page.

Dated:

Agency: City of Chula Vista

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: City of Coronado

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: City of Del Mar

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: City of Escondido

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated: November 5, 2003

Agency: City of El Cajon

By Mark Lewis

Signature Mark Lewis

Title Mayor

Attest: Marelena Genn  
City Clerk

Dated:

Agency: City of Imperial Beach

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: City of La Mesa

Signature \_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: City of National City

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: City of Poway

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: Lemon Grove Sanitation District

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: City of San Diego

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: County of San Diego

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: Otay Water District

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Dated:

Agency: Padre Dam – Municipal Water District

By \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

## Schedule of Equipment Rates

# EXHIBIT ONE

## SCHEDULE OF EQUIPMENT RATES

Cost Code	Equipment	Capacity/ Size	HP	Assumption	Unit	Hourly Rate
8010	Air Compressor	125 Cfm	to 65	Hoses are included.	hour	\$5.60
8011	Air Compressor	250 Cfm	to 95	Hoses are included.	hour	\$9.25
8012	Air Compressor	450 Cfm	to 150	Hoses are included.	hour	\$15.50
8013	Air Compressor	600 Cfm	to 200	Hoses are included.	hour	\$20.00
8014	Air Compressor	750 Cfm	to 240	Hoses are included.	hour	\$25.50
8015	Air Compressor	900 Cfm	to 260	Hoses are included.	hour	\$29.00
8016	Air Compressor	1200 Cfm	to 325	Hoses are included.	hour	\$41.00
8020	Air Curtain Burner	In Ground	to 30	In ground burner.	hour	\$4.80
8021	Air Curtain Burner	In Ground	to 60	In ground burner.	hour	\$7.40
8022	Air Curtain Burner	In Ground	to 90	In ground burner.	hour	\$9.75
8023	Air Curtain Burner	Above Ground	to 30	Above ground burner.	hour	\$5.80
8024	Air Curtain Burner	Above Ground	to 60	Above ground burner.	hour	\$8.25
8025	Air Curtain Burner	Above Ground	to 90	Above ground burner.	hour	\$10.75
8040	Ambulance		to 150		hour	\$13.75
8041	Ambulance		to 210		hour	\$21.00
8060	Auger, Portable	12 In	to 5		hour	\$0.70
8070	Automobile		to 130	Mileage rate when transporting people.	mile	\$0.30
8071	Automobile, Police		to 250	This is a mileage rate.	mile	\$0.35
8072	Automobile, Police		to 250	Vehicle in a fixed position with the engine running and/or the warning lights flashing.	hour	\$8.50
8810	Backhoe, Small	See Loader-Backhoe				
8820	Backhoe, Large	See Hydraulic Excav.				
8110	Barge, Deck	7.25'x30'x120'			hour	\$19.00
8111	Barge, Deck	7'x45'x120'			hour	\$28.50
8120	Barge, Hopper	12'x35'x195'		This is an open barge.	hour	\$31.00
8050	Board, Arrow, Trailer		to 8		hour	\$1.50
8051	Board, Message, Trailer		to 5		hour	\$5.10
8131	Boat	5'x13'	to 50	Includes outboards.	hour	\$7.20
8830	Boat		to 100	Includes outboards and inboards.	hour	\$17.00
8831	Boat		to 150	Includes outboards and inboards.	hour	\$22.00
8832	Boat		to 200	Includes outboards and inboards.	hour	\$27.00
8833	Boat		to 250	Includes outboards and inboards.	hour	\$33.00
8834	Boat		to 300	Includes outboards and inboards.	hour	\$38.00
8840	Boat, Air		to 100		hour	\$12.00
8841	Boat, Air		to 200		hour	\$18.00
8842	Boat, Air		to 300		hour	\$28.00
8133	Boat, Push	16'x45'	to 435		hour	\$76.00
8134	Boat, Push	21'x54'	to 525		hour	\$103.00
8130	Boat, Row			This includes the oars.	hour	\$0.55
8132	Boat, Tender	7'x14'	to 75		hour	\$13.50
8140	Boat, Tug	16 Ft	to 100		hour	\$16.50
8141	Boat, Tug	18 Ft	to 175		hour	\$26.00
8142	Boat, Tug	26 Ft	to 250		hour	\$33.00
8143	Boat, Tug	40 Ft	to 380		hour	\$81.00
8420	Breaker, Pavement		to 80		hour	\$15.00



Schedule of Equipment Rates

Cost Code	Equipment	Capacity/ Size	HP	Assumption	Unit	Hourly Rate
8421	Breaker, Pavement		to 137		hour	\$31.00
8150	Broom, Pavement	72 In	to 32		hour	\$6.20
8151	Broom, Pavement	84 In	to 90		hour	\$9.75
8170	Broom, Pavement, Mtd	72 In			hour	\$1.60
8171	Broom, Pavement, Mtd	72 In	to 18		hour	\$2.50
8160	Broom, Pavement, Pull	84 In			hour	\$3.30
8180	Bus		to 150		hour	\$9.50
8181	Bus		to 210		hour	\$14.75
8182	Bus		to 300		hour	\$20.00
8190	Chain Saw	25 In			hour	\$2.40
8200	Chipper	7 In	to 30		hour	\$5.90
8201	Chipper	12 In	to 65		hour	\$8.00
8202	Chipper	12 In	to 125		hour	\$12.00
8203	Chipper	12 In	to 171		hour	\$14.50
8204	Chipper	18 In	to 250		hour	\$24.50
8205	Chipper	19 In	to 350		hour	\$59.00
8206	Chipper	19 In	to 475		hour	\$63.00
8207	Chipper		to 650		hour	\$87.00
8210	Clamshell & Dragline		to 128		hour	\$67.00
8211	Clamshell & Dragline		to 250		hour	\$74.00
8220	Compactor		to 10	Includes hand held and manually operated equipment.	hour	\$3.20
8221	Compactor		to 50		hour	\$6.80
8222	Compactor		to 80		hour	\$11.25
8223	Compactor		to 110		hour	\$15.50
8224	Compactor		to 150		hour	\$21.00
8225	Compactor		to 186		hour	\$25.50
8226	Compactor		to 210		hour	\$42.00
8227	Compactor		to 318		hour	\$70.00
8228	Compactor, Towed	Drum		Rate is for each drum.	hour	\$1.00
8230	Crane, Lifting	8 Tons	to 80		hour	\$14.50
8231	Crane, Lifting	16 Tons	to 150		hour	\$36.00
8232	Crane, Lifting	32 Tons	to 210		hour	\$55.00
8233	Crane, Lifting	55 Tons	to 325		hour	\$81.00
8250	Dozer, Crawler		to 70		hour	\$16.50
8251	Dozer, Crawler		to 115		hour	\$21.50
8252	Dozer, Crawler		to 160		hour	\$31.00
8253	Dozer, Crawler		to 240		hour	\$40.00
8254	Dozer, Crawler		to 310		hour	\$70.00
8261	Dozer, Wheel		to 210	See 8260 for small wheel tractors/dozers.	hour	\$38.00
8262	Dozer, Wheel		to 310		hour	\$55.00
8263	Dozer, Wheel		to 454		hour	\$89.00
8280	Excavator, Hydraulic	0.5 CY		Includes truck, crawler and wheel mtd eqmt.	hour	\$29.00
8281	Excavator, Hydraulic	1.0 CY		Includes truck, crawler and wheel mtd eqmt.	hour	\$34.00
8282	Excavator, Hydraulic	1.5 CY		Includes truck, crawler and wheel mtd eqmt.	hour	\$44.00
8283	Excavator, Hydraulic	2.0 CY		Includes truck, crawler and wheel mtd eqmt.	hour	\$57.00
8284	Excavator, Hydraulic	2.5 CY		Includes truck, crawler and wheel mtd eqmt.	hour	\$73.00
8300	Fork Lift	4000 Lbs	to 50		hour	\$4.50
8301	Fork Lift	11000 Lbs	to 100		hour	\$8.25
8310	Generator	5 KW	to 11		hour	\$1.20

Schedule of Equipment Rates

Cost Code	Equipment	Capacity/ Size	HP	Assumption	Unit	Hourly Rate
8311	Generator	15 KW	to 30		hour	\$3.00
8312	Generator	40 KW	to 57		hour	\$6.00
8313	Generator	65 KW	to 92		hour	\$10.25
8314	Generator	110 KW	to 160		hour	\$15.50
8315	Generator	125 KW	to 200		hour	\$22.00
8316	Generator	270 KW	to 390		hour	\$26.50
8317	Generator	400 KW	to 570		hour	\$38.00
8318	Generator	500 KW	to 715		hour	\$56.00
8319	Generator	750 KW	to 1050		hour	\$75.00
8320	Golf Cart	2 Person			hour	\$1.80
8330	Grader	10' Blade	to 100	Includes rigid and articulated equipment.	hour	\$15.00
8331	Grader	12' Blade	to 140	Includes rigid and articulated equipment.	hour	\$25.00
8332	Grader	12' Blade	to 200	Includes rigid and articulated equipment.	hour	\$31.00
8350	Hose	3 In		Discharge hoses for pumps. Suction hoses are included with pumps.	hour	\$0.05
8351	Hose	4 In		Discharge hoses for pumps. Suction hoses are included with pumps.	hour	\$0.10
8352	Hose	6 In		Discharge hoses for pumps. Suction hoses are included with pumps.	hour	\$0.15
8353	Hose	8 In		Discharge hoses for pumps. Suction hoses are included with pumps.	hour	\$0.20
8354	Hose	12 In		Discharge hoses for pumps. Suction hoses are included with pumps.	hour	\$0.35
8355	Hose	16 In		Discharge hoses for pumps. Suction hoses are included with pumps.	hour	\$0.75
8360	Jackhammer			Hoses between air compressor and jackhammer are included in rate of air compressor.	hour	\$0.60
8370	Lift, Scissor	1500 Lbs	to 20		hour	\$4.70
8380	Loader, Crawler	0.5 CY	to 32		hour	\$7.75
8381	Loader, Crawler	1.0 CY	to 70		hour	\$14.00
8382	Loader, Crawler	1.5 CY	to 90		hour	\$17.50
8383	Loader, Crawler	2.0 CY	to 120		hour	\$26.00
8384	Loader, Crawler	2.5 CY	to 150		hour	\$35.00
8385	Loader, Crawler	3.0 CY	to 170		hour	\$40.00
8540	Loader, Skid	1000 Lbs	to 27		hour	\$4.90
8541	Loader, Skid	2000 Lbs	to 73		hour	\$7.40
8542	Loader, Skid	4000 Lbs	to 94		hour	\$15.50
8390	Loader, Wheel	0.75 CY	to 63		hour	\$7.30
8391	Loader, Wheel	1.0 CY	to 74		hour	\$9.75

Schedule of Equipment Rates

Cost Code	Equipment	Capacity/ Size	HP	Assumption	Unit	Hourly Rate
8392	Loader, Wheel	1.5 CY	to 75		hour	\$15.00
8393	Loader, Wheel	2.0 CY	to 115		hour	\$18.00
8394	Loader, Wheel	2.5 CY	to 144		hour	\$20.50
8395	Loader, Wheel	3.0 CY	to 160		hour	\$25.00
8396	Loader, Wheel	3.5 CY	to 196		hour	\$29.50
8397	Loader, Wheel	4.0 CY	to 248		hour	\$36.00
				Capacity is the loader bucket and not the backhoe bucket.		
8570	Loader-Backhoe, Wheel	1.03 CY	to 74		hour	\$10.00
				Capacity is the loader bucket and not the backhoe bucket.		
8571	Loader-Backhoe, Wheel	1.5 CY	to 95		hour	\$14.50
				Capacity is the loader bucket and not the backhoe bucket.		
8572	Loader-Backhoe, Wheel	1.75 CY	to 115		hour	\$19.00
8410	Mixer, Concrete, Port	6 CF	to 7		hour	\$1.50
8411	Mixer, Concrete, Port	12 CF	to 9		hour	\$2.10
8400	Mixer, Trailer Mounted	6 CF	to 18		hour	\$3.80
8401	Mixer, Trailer Mounted	16 CF	to 25		hour	\$7.50
8632	Mulcher, Trailer Mtd		to 35		hour	\$4.80
				Includes wheel and crawler equipment.		
8430	Paver, Asphalt	8 Ft	to 35		hour	\$8.50
				Includes wheel and crawler equipment.		
8431	Paver, Asphalt	8 Ft	to 71		hour	\$19.50
				Included wheel and crawler equipment.		
8432	Paver, Asphalt	10 Ft	to 130		hour	\$49.00
				Includes wheel and crawler equipment.		
8433	Paver, Asphalt	10 Ft	to 200		hour	\$65.00
				Includes wheel and crawler equipment.		
8434	Paver, Asphalt	10 Ft	to 234		hour	\$80.00
8450	Plow, Grader Mtd	10.5 Ft			hour	\$6.90
8440	Plow, Truck Mtd				hour	\$3.60
8470	Pump	2 In	to 8		hour	\$2.10
8471	Pump	3 In	to 12		hour	\$2.80
8472	Pump	4 In	to 30		hour	\$6.00
8473	Pump	6 In	to 60		hour	\$8.50
8474	Pump	8 In	to 70		hour	\$12.75
8475	Pump	10 In	to 85		hour	\$15.00
8476	Pump	12 In	to 90		hour	\$17.50
				Extender for a Pump W/O Power		
8463	Pump Extender	20 Ft			hour	\$0.80
8460	Pump, W/O Power	6 In			hour	\$1.50
8461	Pump, W/O Power	12 In			hour	\$2.00
8462	Pump, W/O Power	24 In			hour	\$4.70
8510	Saw, Concrete	14 In	to 20		hour	\$2.40
8511	Saw, Concrete	26 In	to 35		hour	\$5.70
8512	Saw, Concrete	36 In	to 65		hour	\$9.25
8520	Scraper	11 CY	to 180		hour	\$47.00
8521	Scraper	21 CY	to 330		hour	\$70.00
8522	Scraper	31 CY	to 450		hour	\$102.00
8560	Snow Blower		to 472		hour	\$56.00
8561	Snow Blower		to 500		hour	\$60.00
8562	Snow Blower		to 600		hour	\$68.00
8550	Snow Blower, Trk Mtd		to 30		hour	\$7.10
8551	Snow Blower, Trk Mtd		to 66		hour	\$12.75
8552	Snow Blower, Trk Mtd		to 200		hour	\$21.00
8553	Snow Blower, Trk Mtd		to 340		hour	\$31.00

Schedule of Equipment Rates

Cost Code	Equipment	Capacity/ Size	HP	Assumption	Unit	Hourly Rate
8554	Snow Blower, Trk Mtd		to 400		hour	\$34.00
8630	Sprayer, Seed, Trailer	500 Gal	to 20		hour	\$4.80
8631	Sprayer, Seed, Trailer	1000 Gal	to 35		hour	\$7.50
8423	Spreader, Chip	12.5 Ft	to 152		hour	\$26.00
8424	Spreader, Chip	14.5 Ft	to 210		hour	\$26.50
8425	Spreader, Chip, Mtd	8 Ft	to 7		hour	\$1.20
8426	Stripper	12 Gal	to 10		hour	\$1.40
8427	Sweeper, Pavement		to 109		hour	\$22.00
8428	Sweeper, Pavement		to 160		hour	\$29.00
8429	Sweeper, Pavement		to 190		hour	\$35.00
8260	Tractor, Wheel		to 87		hour	\$6.60
8580	Trailer, Asphalt Dist	1000 Gal			hour	\$6.20
8590	Trailer, Dump	18 CY			hour	\$6.60
8591	Trailer, Dump	24 CY			hour	\$10.25
8600	Trailer, Equipment	20 Tons			hour	\$3.20
8601	Trailer, Equipment	40 Tons			hour	\$7.50
8602	Trailer, Equipment	50 Tons			hour	\$8.50
8640	Trailer, Office	8' x 24'		Based on a daily rate.	day	\$10.75
8641	Trailer, Office	8' x 32'		Based on a daily rate.	day	\$12.75
8610	Trailer, Water	3000 Gal			hour	\$10.00
8611	Trailer, Water	6000 Gal			hour	\$12.75
8612	Trailer, Water	9000 Gal			hour	\$14.75
8613	Trailer, Water	12000 Gal			hour	\$16.50
8650	Trencher		to 35		hour	\$3.80
8651	Trencher		to 85		hour	\$15.50
8652	Trencher		to 115		hour	\$31.00
8653	Trencher		to 175		hour	\$49.00
8290	Trowel, Concrete	46 In	to 8		hour	\$1.40
8710	Truck, Bucket	30 Ft	to 150		hour	\$12.50
8711	Truck, Bucket	60 Ft	to 210		hour	\$26.00
8712	Truck, Cleaning	5 CY	to 150		hour	\$19.00
8713	Truck, Cleaning	14 CY	to 210		hour	\$28.50
8680	Truck, Concrete	8 CY	to 235		hour	\$39.00
8681	Truck, Concrete	12 CY	to 285		hour	\$43.00
8720	Truck, Dump	8 CY	to 180		hour	\$14.25
8721	Truck, Dump	10 CY	to 235		hour	\$22.00
8722	Truck, Dump	12 CY	to 255		hour	\$26.00
8723	Truck, Dump	18 CY	to 325		hour	\$32.00
8690	Truck, Fire		to 200		hour	\$24.50
8691	Truck, Fire		to 300		hour	\$35.00
8692	Truck, Fire		to 400		hour	\$45.00
8700	Truck, Flatbed	6000 Lbs	to 140		hour	\$8.75
8701	Truck, Flatbed	15000 Lbs	to 210		hour	\$11.25
8702	Truck, Flatbed	25000 Lbs	to 210		hour	\$13.75
8730	Truck, Garbage	25 CY	to 255		hour	\$26.00
8731	Truck, Garbage	32 CY	to 325		hour	\$32.00
8714	Truck, Line		to 150		hour	\$26.00
8715	Truck, Line		to 210		hour	\$31.00
8803	Truck, Pick up	0.50 Ton	to 130	Mileage rate for transporting people. If vehicle was for hauling, etc. use hourly rate.	mile	\$0.30
8800	Truck, Pick-up	0.50 Ton	to 130		hour	\$5.60
8801	Truck, Pick-up	0.75 Ton	to 130		hour	\$6.30
8802	Truck, Pick-up	1.00 Ton	to 180		hour	\$7.50
8790	Truck, Tractor	30000 Lbs	to 210		hour	\$18.50
8791	Truck, Tractor	35000 Lbs	to 265		hour	\$23.50

Schedule of Equipment Rates

Cost Code	Equipment	Capacity/ Size	HP	Assumption	Unit	Hourly Rate
8792	Truck, Tractor	50000 Lbs	to 310		hour	\$26.00
8780	Truck, Water	2000 Gal	to 175		hour	\$16.00
8781	Truck, Water	3500 Gal	to 250		hour	\$19.00
8620	Tub Grinder		to 425		hour	\$46.00
8621	Tub Grinder		to 450		hour	\$63.00
8622	Tub Grinder		to 550		hour	\$81.00
8623	Tub Grinder		to 650		hour	\$102.00
8624	Tub Grinder		to 800		hour	\$129.00
8625	Tub Grinder		to 1000		hour	\$147.00
8321	Vehicle, Recreational		to 10	Rate can be used for utility vehicles.	hour	\$1.80
8750	Vehicle, Small		to 30		hour	\$3.40
8761	Vibrator, Concrete		to 8		hour	\$1.20
8770	Welder	200 Amp	to 16		hour	\$1.90
8771	Welder	300 Amp	to 34		hour	\$3.90
8772	Welder	400 Amp	to 50		hour	\$5.60

# ATTACHMENT 3

## JPA TWO YEAR AUDIT

FY 2018-2019

**METRO WASTEWATER JOINT POWERS AUTHORITY**  
**BASIC FINANCIAL STATEMENTS**  
**WITH REPORT ON AUDIT BY**  
**INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS**  
**FOR THE TWO-YEAR PERIOD ENDED JUNE 30, 2019**



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**METRO WASTEWATER JOINT POWERS AUTHORITY  
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TWO-YEAR PERIOD ENDED JUNE 30, 2019**

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## INDEPENDENT AUDITORS' REPORT

Board of Directors  
Metro Wastewater Joint Powers Authority  
Santee, California

We have audited the accompanying financial statements of the Metro Wastewater Joint Powers Authority (the Authority) as of and for the two-year period ended June 30, 2019, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

### ***Management's Responsibility for the Financial Statements***

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### ***Auditors' Responsibility***

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

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

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

**Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Metro Wastewater Joint Powers Authority as of June 30, 2019, and the respective changes in financial position and cash flows thereof for the two-year period then ended in accordance with accounting principles generally accepted in the United States of America.

**Other Matters**

*Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis as identified in the accompanying table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during the audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance on them.



**CliftonLarsonAllen LLP**

Carlsbad, California  
August 9, 2021



**METRO WASTEWATER JOINT POWERS AUTHORITY  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
TWO-YEAR PERIOD ENDED JUNE 30, 2019**

Our discussion and analysis of Metro Wastewater Joint Powers Authority's (JPA) financial performance provides an overview of Metro's financial activities for the two year period ended June 30, 2019. Please read it in conjunction with the JPA's financial statements, which follow this section.

**Financial Statements**

This discussion and analysis provides an introduction and a brief description of the JPA's financial statements, including the relationship of the statements to each other and the significant differences in the information they provide. The JPA's financial statements include four components:

- Statement of Net Position
- Statement of Revenues, Expenses, and Changes in Net Position
- Statement of Cash Flows
- Notes to Basic Financial Statements

The statement of net position includes all of the JPA's assets and liabilities, with the difference between the two reported as net position. There were no deferred outflows or deferred inflows of resources at June 30, 2019. The JPA's entire net position is unrestricted.

The statement of revenues, expenses and changes in net position shows how the JPA's net position changed during the two year period. All revenues and expenses were recorded when the underlying transaction occurs, regardless of the timing of the related cash flows. The statement of revenues, expenses and changes in net position measures the success of the JPA's operations over the two years and determines whether the JPA has recovered its costs through member agency assessments.

The statement of cash flows provides information regarding the JPA's cash receipts and cash disbursements during the year. This statement reports the JPA's cash activity as either Operating or Investing; the JPA had no Capital and Related Financing Activities or Noncapital and Related Financing Activities for the year. The statement of cash flows differs from the statement of revenues, expenses and changes in net position because it accounts only for transactions that result in cash receipts or cash disbursements.

The notes to the financial statements provide a description of the accounting policies used to prepare the financial statements and present material disclosures required by generally accepted accounting principles that are not otherwise present in the financial statements.

**METRO WASTEWATER JOINT POWERS AUTHORITY  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
TWO-YEAR PERIOD ENDED JUNE 30, 2019**

**Financial Highlights**

For the two year period ended June 30, 2019, the JPA's total net position increased by \$122,471. Operating revenues, which is comprised of Member Agency Assessments, is set annually to cover the cost of operations. For the two year period ending June 30, 2019, operating revenues were \$808,440 or an increase of \$438,180 from the prior two year period. The reason for the increase is that in FY 2017, the JPA reduced Member Agency Assessments by \$113,650 by using reserves to cover a portion of operating expenses. In FY 2018, there was no offset to the required Member Agency Assessments so operating revenues increased from FY 2017 to FY 2018 by \$279,450. Operating revenues increased from FY 2018 to 2019 by \$22,240 to cover a small increase in budgeted expenses. Operating expenses for the two year period ending June 30, 2019 was \$686,325; this was an increase from the prior two year period of \$328,971. The reason for this increase was due to a significant amount of engineering and legal work done in both FY 2018 and FY 2019 on the Amended and Restated Regional Wastewater Disposal Agreement between the City of San Diego and the Metro Participating Agencies. Non-operating revenues increased by \$356 from the prior two year period. There were no non-operating expenses.

**Financial Analysis of the Financial Statements**

**Net Position**

The JPA's net position at June 30, 2019 totaled \$261,961 compared to \$139,490 at June 30, 2017. The \$122,471 increase in net position is attributed to operating income for the two year period, net of operating expenses, of \$122,115 and nonoperating revenue of \$356. The following is a summary of the JPA's statement of net position:

<b>Assets</b>	<u>Jun 30, 2017</u>	<u>Jun 30, 2019</u>	<u>Difference</u>
Current Assets	\$ 170,738	\$ 292,392	\$ 121,654
Total Assets	<u>170,738</u>	<u>292,392</u>	<u>121,654</u>
<b>Liabilities</b>			
Current Liabilities	<u>31,248</u>	<u>30,431</u>	<u>(817)</u>
Total Liabilities	<u>31,248</u>	<u>30,431</u>	<u>(817)</u>
<b>Net Position</b>			
Unrestricted	<u>139,490</u>	<u>261,961</u>	<u>122,471</u>
Total Net Position	<u>\$ 139,490</u>	<u>\$ 261,961</u>	<u>\$ 122,471</u>

**Revenues, Expenses, and Changes in Net Position**

The JPA reported a change in net position of \$122,471 for the two year period ended June 30, 2019 or a positive \$37,885 and \$84,420 in FY 2018 and FY 2019, respectively. This is an increase of \$109,456 compared to the two year period ending June 30, 2017.



**METRO WASTEWATER JOINT POWERS AUTHORITY  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
TWO-YEAR PERIOD ENDED JUNE 30, 2019**

**Revenues, Expenses, and Changes in Net Position (Continued)**

Revenues for the two year period were \$808,796 or \$393,290 and \$415,506 for fiscal years 2018 and 2019, respectively; this is an increase of \$438,397 from the two year period ended June 30, 2017. The increase was a combination of the use of reserves to partially offset member contributions in fiscal year 2017 and an increase in member agency assessments to cover increased budgeted operating expenses in FY 2018 and 2019.

Operating expenses for the two year period ending June 30, 2019 were \$686,325 or \$355,405 and \$330,920 for fiscal years 2018 and 2019, respectively; this is an increase of \$328,941 from the two year period ending June 30, 2017. The reason for this increase was due to a significant amount of engineering and legal work done in both FY 2018 and 2019 on the Amended and Restated Regional Wastewater Disposal Agreement between the City of San Diego and the Metro Participating Agencies.

The following is a summary of the JPA's statement of revenues, expenses, and changes in net position:

	<u>Jun 30, 2017</u>	<u>Jun 30, 2019</u>	<u>Difference</u>
Operating Revenues	\$ 370,260	\$ 808,440	\$ 438,180
Nonoperating Revenues	<u>139</u>	<u>356</u>	<u>217</u>
Total Revenues	370,399	808,796	438,397
Operating Expenses			
Total Expense	<u>357,384</u>	<u>686,325</u>	<u>328,941</u>
	357,384	686,325	328,941
Changes in Net Position	13,015	122,471	109,456
Net Position, Beginning of Period	<u>126,475</u>	<u>139,490</u>	<u>13,015</u>
Net Position, End of Period	<u>\$ 139,490</u>	<u>\$ 261,961</u>	<u>\$ 122,471</u>

**Long-Term Debt and Capital Assets**

The JPA has no long-term debt or capital assets.

**Conditions Affecting Current Financial Position**

There are no known facts, decisions, or conditions that are expected to have a significant effect on the JPA's net position or future results of operations.

**Contacting the JPA's Financial Manager**

This financial report is designed to provide Metro Wastewater JPA's member agencies, their constituents and the State of California with a general overview of the JPA's finances and to demonstrate the JPA's accountability for the money it receives. If you have questions about this report or need additional financial information, contact the JPA's treasurer, Karen Jassoy.

## **BASIC FINANCIAL STATEMENTS**

**METRO WASTEWATER JOINT POWERS AUTHORITY**  
**STATEMENT OF NET POSITION**  
**June 30, 2019**

**ASSETS**

Current Assets:

Cash and cash equivalents	\$ 284,187
Accounts receivable	<u>8,205</u>
Total Current Assets	<u>292,392</u>

TOTAL ASSETS	<u>292,392</u>
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**LIABILITIES**

Current Liabilities:

Accounts payable	<u>30,431</u>
Total Current Liabilities	<u>30,431</u>

TOTAL LIABILITIES	<u>30,431</u>
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**NET POSITION**

Unrestricted	<u>261,961</u>
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TOTAL NET POSITION	<u><u>\$ 261,961</u></u>
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**METRO WASTEWATER JOINT POWERS AUTHORITY**  
**STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION**  
**For the two-year period ended June 30, 2019**

OPERATING REVENUES

Member agency assessments	\$	808,440
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Total Operating Revenues		808,440
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OPERATING EXPENSES

Engineering		235,902
JPA Meetings		44,086
General and administrative		69,454
Legal		202,563
Financial Advisor		134,320

Total Operating Expenses		686,325
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OPERATING INCOME		122,115
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NONOPERATING REVENUES

Investment income		356
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Total Nonoperating Revenues		356
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Change in Net Position		122,471
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Net Position, Beginning of Period		139,490
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Net Position, End of Period	\$	261,961
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**METRO WASTEWATER JOINT POWERS AUTHORITY**  
**STATEMENT OF CASH FLOWS**  
For the two-year period ended June 30, 2019

**Cash Flows from Operating Activities:**

Cash receipts from membership agency assessments	\$ 800,235
Cash paid to vendors and suppliers for materials and services	<u>(687,142)</u>

Net Cash Provided by Operating Activities	<u>113,093</u>
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**Cash Flows from Investing Activities:**

Interest earnings	<u>356</u>
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Net Cash Provided by Investing Activities	<u>356</u>
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Net Increase in Cash and Cash Equivalents	113,449
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Cash and Cash Equivalents, Beginning of Period	<u>170,738</u>
--	----------------

Cash and Cash Equivalents, End of Period	<u><u>\$ 284,187</u></u>
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**Reconciliation of Operating Income to Net Cash Flows  
Provided by Operating Activities:**

Operating Income	<u>\$ 122,115</u>
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Adjustments to Reconcile Operating Income to  
Net Cash Provided (Used) by Operating Activities:

Changes in operating assets and liabilities:

Increase in accounts receivable	(8,205)
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Increase in accounts payable	<u>(817)</u>
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Total Adjustments	<u>(9,022)</u>
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Net Cash Provided by Operating Activities	<u><u>\$ 113,093</u></u>
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**METRO WASTEWATER JOINT POWERS AUTHORITY**  
**NOTES TO THE BASIC FINANCIAL STATEMENTS**  
**June 30, 2019**

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

a. Organization and Operations of the Reporting Entity:

The Metropolitan Wastewater Commission was formed in 1998 pursuant to the terms of the 1998 Regional Wastewater Disposal Agreement between the City of San Diego and the following municipalities collectively referred to as the Participating Agencies: Cities of Chula Vista, Coronado, Del Mar, El Cajon, Imperial Beach, La Mesa, Lemon Grove, National City, Poway, the Otay Water District, Padre Dam Municipal Water District, East Otay Mesa, Lakeside/Alpine, Spring Valley, and Winter Gardens Sanitation District. The Metropolitan Wastewater Commission is an advisory body to the City of San Diego, advising the City on matters affecting the Metro System, owned by the City of San Diego.

In 2001 the Metro Wastewater Joint Powers Authority (the Authority) was formed to provide the Participating Agencies with a stronger voice in the operations of the Metro System, for which they collectively pay approximately 35% of the operation and capital costs. As of October 2007, all Participating Agencies of the Metropolitan Wastewater Commission are members of the Authority.

The Authority, along with the Metropolitan Wastewater Commission acts as partners with the City of San Diego and the City's Metropolitan Wastewater Department in planning and budget development, and through its participation in the Metro Technical Advisory Committee, monitors the implementation of the City of San Diego Metropolitan Wastewater Plan and the City's Metropolitan Wastewater Department's engineering and financial practices.

b. Measurement Focus, Basis of Accounting, and Financial Statements Presentation:

"Measurement focus" is a term used to describe *which* transactions are recorded within the various financial statements. "Basis of accounting" refers to *when* transactions are recorded regardless of the measurement focus applied. The accompanying financial statements are reported using the "economic resources measurement focus", and the "accrual basis of accounting". Under the economic resources measurement focus all assets and liabilities (whether current or noncurrent) are included on the Statement of Net Position. The Statement of Revenues, Expenses, and Changes in Net Position present increases (revenues) and decreases (expenses) in total net position. Under the accrual basis of accounting, revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows.

Operating revenues, mainly member agency assessments, result from exchange transactions associated with the principal activity of the Authority. Exchange transactions are those in which each party receives and gives up essentially equal values. Nonoperating revenues, result from non-exchange transactions, in which, the Authority receives value without directly giving value in exchange.

The Authority reports its activities as an enterprise fund, which is used to account for operations that are financed and operated in a manner similar to a private business enterprise.



**METRO WASTEWATER JOINT POWERS AUTHORITY**  
**NOTES TO THE BASIC FINANCIAL STATEMENTS**  
**June 30, 2019**

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (CONTINUED)

b. Measurement Focus, Basis of Accounting, and Financial Statements Presentation (Continued):

The basic financial statements of the Metro Wastewater Joint Powers Authority have been prepared in conformity with accounting principles generally accepted in the United States of America. The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for governmental accounting financial reporting purposes.

Net position of the Authority is classified into three components: (1) net investment in capital assets, (2) restricted net position, and (3) unrestricted net position. These classifications are defined as follows:

Net Investment in Capital Assets

This component of net position consists of capital assets, net of accumulated depreciation and reduced by the outstanding balances of notes or borrowing that are attributable to the acquisition of the asset, construction, or improvement of those assets. If there are significant unspent related debt proceeds at year-end, the portion of the debt attributable to the unspent proceeds are not included in the calculation of net investment in capital assets. The Authority has no net investment in capital assets at June 30, 2019.

Restricted Net Position

This component of net position consists of net position with constrained use through external constraints imposed by creditors (such as through debt covenants), grantors, contributors, or laws or regulations of other governments or constraints imposed by law through constitutional provisions or enabling legislation. The Authority has no amounts in restricted net position at June 30, 2019.

Unrestricted Net Position

This component of net position consists of net position that does not meet the definition of "net investment in capital assets" or "restricted net position".

When both restricted and unrestricted resources are available for use, it is the Authority's practice to use restricted resources first, then unrestricted resources as they are needed.

c. New Accounting Pronouncements:

Current Year Standards:

GASB 83 - *Certain Asset Retirement Obligations*, effective for periods beginning after June 15, 2018.

GASB 88 - *Certain Disclosures Related to Debt, Including Direct Borrowings and Direct Placements*, effective for periods beginning after June 15, 2018.

**METRO WASTEWATER JOINT POWERS AUTHORITY**  
**NOTES TO THE BASIC FINANCIAL STATEMENTS**  
**June 30, 2019**

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (CONTINUED)

c. New Accounting Pronouncements (Continued):

GASB Pending Accounting Standards:

*GASB 84 - In January 2017, the Governmental Accounting Standards Board issued Statement No. 84, "Fiduciary Activities". The requirements of this Statement are effective for reporting periods beginning after December 15, 2019.*

*GASB 87 - Leases, effective for periods beginning after December 15, 2019.*

*GASB 89 - Accounting for Interest Cost Incurred before the End of a Construction Period, effective for periods beginning after December 15, 2019.*

*GASB 90 - Majority Equity Interests - an amendment of GASB Statements No. 14 and No. 61, effective for periods beginning after December 15, 2018.*

*GASB 91 - Conduit Debt Obligations, effective for periods beginning after December 15, 2020.*

*GASB 92 - In January 2020, the Governmental Accounting Standards Board issued Statement No. 92, "Omnibus 2020". The requirements of this Statement are effective for fiscal years beginning after June 15, 2020.*

*GASB 95 - The Governmental Accounting Standards Board issued Statement No. 95, "Postponement of the Effective Dates of Certain Authority Guidance" to provide temporary relief to governments and other stakeholders in light of the COVID-19 pandemic.*

*GASB 97 - In June 2020, the Governmental Accounting Standards Board issued Statement No. 97, "Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans - an amendment of GASB Statements No. 14 and No. 84, and a supersession of GASB Statement No. 32." The requirements of this Statement are effective for fiscal years beginning after June 15, 2021.*

d. Cash and Cash Equivalents:

For purposes of the statement of cash flows, the Authority considers all investment instruments purchased with a maturity of three months or less to be cash equivalents.

e. Accounts Receivable:

Management believes that all receivables are fully collectible; therefore no allowance for doubtful accounts was recorded as of June 30, 2019.

f. Budgetary Controls:

The Authority prepares a budget that is approved by the Board of Directors. Unspent appropriations for the operating budget lapse at fiscal year-end unless designated by Board action to be carried forward to the next budget period.



**METRO WASTEWATER JOINT POWERS AUTHORITY**  
**NOTES TO THE BASIC FINANCIAL STATEMENTS**  
**June 30, 2019**

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (CONTINUED)

g. Estimates:

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

h. Subsequent Events:

Events occurring after June 30, 2019 have been evaluated for possible adjustments to the financial statements or disclosures as of August 9, 2021, which is the date these financial statements were available to be issued.

2. CASH AND INVESTMENTS:

At June 30, 2019, the \$284,187 of cash and cash equivalents shown on the Statement of Net Position are deposits with financial institutions.

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, the Authority will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The custodial credit risk for investments is the risk that, in the event of the failure of the counter-party (e.g., broker-dealer) the Authority will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The California Government Code and the Authority's investment policy do not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits or investments, other than the following provision for deposits: The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The market value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure Authority deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits.

As of June 30, 2019, \$58.506 of deposits with financial institutions were in excess of the Federal insurance limits were held in collateralized accounts.

**METRO WASTEWATER JOINT POWERS AUTHORITY**  
**NOTES TO THE BASIC FINANCIAL STATEMENTS**  
**June 30, 2019**

**3. MEMBER AGENCY ASSESSMENTS:**

The Authority prepares an expense budget, then calculates member agency assessments to cover budgeted expenses. Member agency assessments are based on each agency's projected treated wastewater flow discharge. The projected discharge is based on the actual figures from the prior year.

	For the Fiscal Year Ended June 30, 2018		For the Fiscal Year Ended June 30, 2019		
	Commission		Commission		
	Flow		Flow		
	Distribution		Distribution		
Agency	Percentage	Billings	Percentage	Billings	Total Billings
Chula Vista	30.73	\$ 120,806	29.73	\$ 123,463	\$ 244,269
Coronado	4.58	17,998	4.31	17,886	35,884
County of San Diego	15.71	61,737	16.44	68,291	130,028
Del Mar	0.06	229	0.06	236	465
El Cajon	14.26	56,037	14.37	59,696	115,733
Imperial Beach	3.82	14,997	3.57	14,815	29,812
La Mesa	7.59	29,832	7.72	32,055	61,887
Lemon Grove	3.97	15,622	3.89	16,172	31,794
National City	7.03	27,638	7.13	29,618	57,256
Otay Water District	0.84	3,312	0.83	3,437	6,749
Padre Dam	6.74	26,515	7.23	30,047	56,562
Poway	4.67	18,377	4.72	19,624	38,001
Total	100.00	\$ 393,100	100.00	\$ 415,340	\$ 808,440

**4. CONTINGENCIES:**

**Litigation**

In the ordinary course of operations, the Authority is subject to claims and litigation from outside parties. After consultation with legal counsel, the Authority believes the ultimate outcome of such matters, if any, will not materially affect its financial condition.



Investment advisory services are offered through CliftonLarsonAllen Wealth Advisors, LLC, an SEC-registered investment advisor. CLA is an independent member of Nexia International, a leading, global network of independent accounting and consulting firms. See [nexia.com/member-firm-disclaimer](http://nexia.com/member-firm-disclaimer) for details. CliftonLarsonAllen LLP





August 9, 2021

Clifton Larson Allen LLP  
2965 Roosevelt Street  
Carlsbad, CA 92008

This representation letter is provided in connection with your audit of the financial statements of the Metro Wastewater Joint Powers Authority, which comprise the financial position as of June 30, 2019, and the respective change in financial position and cash flows for the two-year period then ended, and the related notes to the financial statements, for the purpose of expressing an opinion as to whether the financial statements are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP).

Certain representations in this letter are described as being limited to matters that are material. Items are considered material, regardless of size, if they involve an omission or misstatement of accounting information that, in light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, as of August 9, 2021, the following representations made to you during your audit.

#### **Financial Statements**

1. We have fulfilled our responsibilities, as set out in the terms of the audit engagement letter dated June 4, 2020, for the preparation and fair presentation of the financial statements in accordance with U.S. GAAP. The financial statements include all properly classified funds and other financial information of the primary government required by generally accepted accounting principles to be included in the financial reporting entity.
2. We acknowledge and have fulfilled our responsibility for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.
3. We acknowledge our responsibility for the design, implementation, and maintenance of internal control to prevent and detect fraud.
4. Significant assumptions used by us in making accounting estimates, including those measured at fair value, are reasonable.
5. Related party relationships and transactions, including, but not limited to, revenues, expenditures/expenses, loans, transfers, leasing arrangements, and guarantees, and amounts



receivable from or payable to related parties have been appropriately accounted for and disclosed in accordance with the requirements of U.S. GAAP.

6. No events, including instances of noncompliance, have occurred subsequent to the financial statement date and through the date of this letter that would require adjustment to, or disclosure in, the financial statements.
7. . We have not identified or been notified of any uncorrected financial statement misstatements.
8. The effects of all known actual or possible litigation, claims, and assessments have been accounted for and disclosed in accordance with U.S. GAAP.
9. We have no plans or intentions that may materially affect the carrying value or classification of assets, liabilities, or equity.

#### **Information Provided**

1. We have provided you with:
  - a. Access to all information, of which we are aware, that is relevant to the preparation and fair presentation of the financial statements such as records, documentation, and other matters.
  - b. Additional information that you have requested from us for the purpose of the audit.
  - c. Unrestricted access to persons within the entity from whom you determined it necessary to obtain audit evidence.
  - d. Complete minutes of the meetings of the governing board and related committees, or summaries of actions of recent meetings for which minutes have not yet been prepared.
2. All material transactions have been recorded in the accounting records and are reflected in the financial statements.
3. We have disclosed to you the results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.
4. We have no knowledge of any fraud or suspected fraud that affects the entity and involves:
  - a. Management;
  - b. Employees who have significant roles in internal control; or
  - c. Others when the fraud could have a material effect on the financial statements.
5. We have no knowledge of any allegations of fraud, or suspected fraud, affecting the entity's financial statements communicated by employees, former employees, contractors, regulators, or others.

6. We have no knowledge of any instances of noncompliance or suspected noncompliance with laws and regulations and provisions of contracts and grant agreements, or waste or abuse whose effects should be considered when preparing financial statements.
7. We have disclosed to you all known actual or possible litigation, claims, and assessments whose effects should be considered when preparing the financial statements.
8. There are no other material liabilities or gain or loss contingencies that are required to be accrued or disclosed in accordance with U.S. GAAP.
9. We have disclosed to you the identity of the entity's related parties and all the related party relationships and transactions of which we are aware.
10. The entity has satisfactory title to all owned assets, and there are no liens or encumbrances on such assets, nor has any asset been pledged as collateral, except as made known to you and disclosed in the financial statements.
11. We are responsible for compliance with the laws, regulations, and provisions of contracts and grant agreements applicable to Metro Wastewater JPA, including tax or debt limits and debt contracts; and we have identified and disclosed to you all laws, regulations, and provisions of contracts and grant agreements that we believe have a direct and material effect on the determination of financial statement amounts or other financial data significant to the audit objectives, including legal and contractual provisions for reporting specific activities in separate funds.
12. There are no violations or possible violations of budget ordinances, laws and regulations (including those pertaining to adopting, approving, and amending budgets), provisions of contracts and grant agreements, tax or debt limits, and any related debt covenants whose effects should be considered for disclosure in the financial statements, or as a basis for recording a loss contingency, or for reporting on noncompliance.
13. The entity has complied with all aspects of contractual agreements that would have a material effect on the financial statements in the event of noncompliance.
14. We have followed all applicable laws and regulations in adopting, approving, and amending budgets.
15. The financial statements include all component units as well as joint ventures with an equity interest, and properly disclose all other joint ventures, jointly governed organizations, and other related organizations.
16. The financial statements properly classify all funds and activities.
17. All funds that meet the quantitative criteria in GASB Statement Nos. 34 and 37 for presentation as major are identified and presented as such and all other funds that are presented as major are particularly important to financial statement users.
18. Components of net position (net investment in capital assets; restricted; and unrestricted) and equity amounts are properly classified and, if applicable, approved.

19. Investments, derivative instruments, and land and other real estate held by endowments are properly valued.
20. Provisions for uncollectible receivables, if any, have been properly identified and recorded.
21. Revenues and expenses have been appropriately classified in the statement of revenues, expenses and changes in net position.
22. Deposits and investment securities and derivative instruments are properly classified as to risk and are properly valued and disclosed.
23. We have appropriately disclosed the entity's policy regarding whether to first apply restricted or unrestricted resources when an expense is incurred for purposes for which both restricted and unrestricted net position is available and have determined that net position is properly recognized under the policy.
24. We acknowledge our responsibility for the required supplementary information (RSI). The RSI is measured and presented within prescribed guidelines and the methods of measurement and presentation have not changed from those used in the prior period. We have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the RSI.
25. We understand that you prepared the trial balance for use during the audit and that your preparation of the trial balance was limited to formatting information into a working trial balance based on management's chart of accounts.
26. As part of your audit, you prepared the draft financial statements and related notes. We have designated an individual who possesses suitable skill, knowledge, and/or experience to understand and oversee your services; have made all management judgments and decisions; and have assumed all management responsibilities. We have evaluated the adequacy and results of the service. We have reviewed, approved, and accepted responsibility for those financial statements and related notes. We have also ensured that the entity's data and records are complete and received sufficient information to oversee the service.

Sincerely,

  
Karen Jassoy, CFO

08/09/21

  
Allen Carlisle, CEO/General Manager

08/09/21





Board of Directors  
Metro Wastewater Joint Powers Authority  
Santee, California

We have audited the accompanying financial statements of the Metro Wastewater Joint Powers Authority (the Authority) as of and for the two-year period ended June 30, 2019 and have issued our report thereon dated August 9, 2021. We have previously communicated to you information about our responsibilities under auditing standards generally accepted in the United States of America, as well as certain information related to the planned scope and timing of our audit. Professional standards also require that we communicate to you the following information related to our audit.

### **Significant audit findings**

#### ***Qualitative aspects of accounting practices***

##### *Accounting policies*

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the Authority are described in Note 1 to the financial statements.

No new accounting policies were adopted and the application of existing policies was not changed during the two-year period ended June 30, 2019.

We noted no transactions entered into by the Authority during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

##### *Accounting estimates*

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. There were no accounting estimates affecting the financial statements which were particularly sensitive or required substantial judgments by management.

##### *Financial statement disclosures*

Certain financial statement disclosures are particularly sensitive because of their significance to financial statement users. The most sensitive disclosure affecting the financial statements was:

- The member agency assessment that is based on each agency's projected treated wastewater flow discharge.

The financial statement disclosures are neutral, consistent, and clear.

***Difficulties encountered in performing the audit***

We encountered no significant difficulties in dealing with management in performing and completing our audit.

***Uncorrected misstatements***

Professional standards require us to accumulate all misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. Management did not identify and we did not notify them of any uncorrected financial statement misstatements.

***Corrected misstatements***

Management did not identify and we did not notify them of any financial statement misstatements detected as a result of audit procedures.

***Disagreements with management***

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditors' report. No such disagreements arose during our audit.

***Management representations***

We have requested certain representations from management that are included in the management representation letter dated August 9, 2021.

***Management consultations with other independent accountants***

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the entity's financial statements or a determination of the type of auditors' opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

***Significant issues discussed with management prior to engagement***

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to engagement as the entity's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our engagement.

***Other Matters***

We applied certain limited procedures to Management's Discussion and Analysis which is required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

Our auditors' opinion, the audited financial statements, and the notes to financial statements should only be used in their entirety. Inclusion of the audited financial statements in a document you prepare, such as an annual report, should be done only with our prior approval and review of the document.

\* \* \*

This communication is intended solely for the information and use of the Board of Directors and management of the Metro Wastewater Joint Powers Authority and is not intended to be, and should not be, used by anyone other than these specified parties.

A handwritten signature in black ink that reads "CliftonLarsonAllen LLP". The signature is written in a cursive, flowing style.

**CliftonLarsonAllen LLP**

Carlsbad, California  
August 9, 2021

# ATTACHMENT 4

## JPA TREASURER'S REPORT FOR THE YEAR-ENDED JUNE 30, 2021



Metro Wastewater Joint Powers Authority  
Treasurer's Report  
**Year ended June 30, 2021**



**Metro Wastewater JPA**  
**Treasurer's Report**  
Year ended June 30, 2021

<b>Beginning Cash Balance at July 1, 2020</b>	\$ 559,757
<b>Operating Results</b>	
Membership Dues & Interest Income	289,508
Expenses	<u>(243,152)</u>
Change in Net Position	46,356
Net change in Receivables & Payables	<u>(38,787)</u>
<b>Cash used in Operations</b>	<u>7,569</u>
<b>Ending Cash Balance at June 30, 2021</b>	<u><u>\$ 567,326</u></u>

**Metro Wastewater JPA**  
**Statement of Net Position**

As of June 30, 2020 and June 30, 2021  
Unaudited

	<u>June 30, 2020</u>	<u>June 30, 2021</u>	<u>\$ Change</u>
<b><u>ASSETS</u></b>			
Checking/Savings	\$ 559,757	\$ 567,325	\$ 7,569
Accounts Receivable	<u>7,662</u>	<u>7,696</u>	<u>33</u>
Total Assets	<u><u>\$ 567,419</u></u>	<u><u>\$ 575,021</u></u>	<u><u>\$ 7,602</u></u>
<b><u>LIABILITIES</u></b>			
Accounts Payable	\$ 44,133	\$ 5,379	\$ (38,754)
Unearned Membership Billings	<u>-</u>	<u>-</u>	<u>-</u>
Total Liabilities	\$ 44,133	\$ 5,379	\$ (38,754)
<b><u>NET POSITION</u></b>			
Net Position at Beginning of Period	\$ 261,960	\$ 523,286	\$ 261,325
Change in Net Position	<u>261,325</u>	<u>46,356</u>	<u>(214,969)</u>
Net Position at End of Period	\$ 523,286	\$ 569,642	\$ 46,356
<b><u>TOTAL LIABILITIES &amp; NET POSITION</u></b>	<u><u>\$ 567,419</u></u>	<u><u>\$ 575,021</u></u>	<u><u>\$ 7,602</u></u>

<i>Net Position at 6/30/21</i>	\$ 569,642
<i>FY '21 Required Reserve (4 months of Op Exp)</i>	<u>138,150</u>
<i>Over (under) required reserve</i>	\$ 431,492

**Metro Wastewater JPA**  
**Statement of Operations**  
**Budget vs. Actual**

Year ended June 30, 2021  
Unaudited

	<u>Actual</u>	<u>Budget</u>	<u>Over (Under) Budget</u>
<b>Income</b>			
<b>Membership Dues</b>	\$ 289,350	\$ 289,350	-
<b>Interest Income</b>	<u>158</u>	<u>100</u>	<u>58</u>
<b>Total Income</b>	\$ 289,508	\$ 289,450	\$ 58
<b>Expense</b>			
<b>Administrative Assistant-LP</b>	\$ 8,635	\$ 8,400	\$ 235
<b>Bank Charges</b>	-	200	(200)
<b>Contingency</b>	-	-	-
<b>Dues &amp; Subscriptions</b>	538	600	(62)
<b>Financial Services</b>			
<b>Audit Fees</b>	4,700	12,000	(7,300)
<b>Financial - The Keze Group</b>	49,163	77,600	(28,437)
<b>Treasurer - Padre Dam/El Cajon</b>	11,984	20,000	(8,016)
<b>JPA/TAC meeting expenses</b>	-	5,000	(5,000)
<b>Miscellaneous</b>	-	250	(250)
<b>Per Diem - Board</b>	11,700	18,000	(6,300)
<b>Printing, Postage, Supplies</b>	422	250	172
<b>Professional Services</b>			
<b>Engineering - Dexter Wilson</b>	92,405	108,000	(15,595)
<b>Engineering - NV5</b>	16,550	30,000	(13,450)
<b>Legal - Procopio</b>	10,266	70,000	(59,734)
<b>Legal - BB&amp;K</b>	32,593	60,000	(27,407)
<b>Meeting Facilitator</b>	1,160	-	1,160
<b>Telephone</b>	240	1,400	(1,160)
<b>Website Maintenance &amp; Hosting</b>	<u>2,796</u>	<u>2,750</u>	<u>46</u>
<b>Total Expense</b>	\$ 243,152	\$ 414,450	\$ (171,298)
<b>Net Income (Loss)</b>	<u>\$ 46,356</u>	<u>\$ (125,000)</u>	<u>\$ 171,356</u>

**Metro Wastewater JPA**  
**Statement of Cash Flows**

Year ended June 30, 2021  
Unaudited

**OPERATING ACTIVITIES**

<b>Change in Net Position</b>	\$ 46,356
-------------------------------	-----------

**Adjustments to Reconcile Change in Net  
Position to Net Cash Provided by Operations:**

<b>Accounts Receivable</b>	(33)
----------------------------	------

<b>Accounts Payable</b>	(38,754)
-------------------------	----------

<b>Deferred Revenue</b>	-
-------------------------	---

<b>Cash at June 30, 2020</b>	7,569
------------------------------	-------

<b>Net cash increase (decrease) for year</b>	559,757
--	---------

<b>Cash at June 30, 2021</b>	<u><u>\$ 567,326</u></u>
------------------------------	--------------------------

Metro Wastewater JPA  
A/R Aging Summary  
As of June 30, 2021

	<u>Current</u>	<u>1 - 30</u>	<u>31 - 60</u>	<u>60-90</u>	<u>&gt;90</u>	<u>TOTAL</u>
City of San Diego Metro	<u>3,862</u>	<u>3,833</u>	<u>-</u>	<u>-</u>	<u>\$ -</u>	<u>\$ 7,695.59</u>
<b>TOTAL</b>	<u><b>\$ 3,862.20</b></u>	<u><b>\$ 3,833.39</b></u>	<u><b>\$ -</b></u>	<u><b>\$ -</b></u>	<u><b>\$ -</b></u>	<u><b>\$ 7,695.59</b></u>

**Metro Wastewater JPA  
Vendor Accrual Summary**

As of June 30, 2021

Director Per Diems	\$	900.00
Director Per Diems		450.00
Treasurer - Padre Dam		<u>4,029.09</u>
Total	\$	<u><u>5,379.09</u></u>

# ATTACHMENT 5

DRAFT REVISIONS TO  
SECTION 2.8.2 OF THE  
ARA TO ALLOW FOR A  
SINGLE  
RECONCILIATION OF  
SHARED PURE WATER  
PROGRAM EXPENSES  
AT PHASE 1 PROJECT  
COMPLETION

---

# RECONCILIATION OF PURE WATER PHASE I 50/50 INCURRED COST ITEMS (SECTION 2.8.2)



## EXISTING ARA LANGUAGE

Revision to 2.8.2.

Existing Language:

2.8.2 The allocation of Pure Water Program costs pursuant to this Agreement shall be retroactive through the fiscal year ending June 30, 2014, when Pure Water Program costs were first incurred by the Metro System. When conducting the year-end adjustments for the fiscal year in which this Agreement takes effect, the City shall credit or assess such prior costs to the Parties pursuant to this Agreement.

- This language applies to engineering and planning item not related to specific Pure Water CIP projects. Additional language will be added for reconciliation of actual CIP projects such as the Morena Pump Station & Pipelines, etc.

## ESTIMATED 50/50 EXPENSES

	50/50 Expenses from that year	Original Metro Split %	Original Water Split %
FY 2014	\$630,109	50%	50%
FY 2015	\$2,476,617	50%	50%
FY 2016	\$4,503,182	50%	50%
FY 2017	\$7,398,893	50%	50%
FY 2018	\$6,194,711	50%	50%
FY 2019	\$7,844,738	50%	50%
FY 2020	\$8,018,735	50%	50%
FY 2021	\$7,728,093	50%	50%
FY 2022		50%	50%
FY 2023		62%	38%
FY 2024			
FY 2025			
Totals	\$44,795,078		

## ESTIMATED REALLOCATION OF METRO SHARE

	Original Metro Share	Original Water Share	Metro Post Allocation Share
FY 2014	\$315,055	\$315,055	\$239,442
FY 2015	\$1,238,309	\$1,238,309	\$941,115
FY 2016	\$2,251,591	\$2,251,591	\$1,711,209
FY 2017	\$3,699,447	\$3,699,447	\$2,811,579
FY 2018	\$3,097,355	\$3,097,355	\$2,353,990
FY 2019	\$3,922,369	\$3,922,369	\$2,981,000
FY 2020	\$4,009,367	\$4,009,367	\$3,047,119
FY 2021	\$3,864,046	\$3,864,046	\$2,936,675
FY 2022			
FY 2023			
FY 2024			
FY 2025			
Totals	\$22,397,539	\$22,397,539	\$17,022,130

## EXAMPLE: INTEREST CALCULATION

	Amounts Subject to Interest (50% Cost - Metro Share %)	Running Metro Balance Subject to Interest	Yearly Interest Earnings (Compounded Monthly)	Estimated PA Share (Average Share of Metro Costs)	Annual Interest Rate (San Diego City Treasurers)
FY 2014	\$75,613	\$75,613.11	\$331.85	\$99.56	0.438%
FY 2015	\$297,194	\$373,139.02	\$2,091.20	\$627.36	0.559%
FY 2016	\$540,382	\$915,612.07	\$7,130.47	\$2,139.14	0.776%
FY 2017	\$887,867	\$1,810,609.74	\$19,560.24	\$5,868.07	1.075%
FY 2018	\$743,365	\$2,573,535.26	\$35,479.67	\$10,643.90	1.370%
FY 2019	\$941,369	\$3,550,383.50	\$74,954.15	\$22,486.25	2.091%
FY 2020	\$962,248	\$4,587,585.83	\$78,599.50	\$23,579.85	1.700%
FY 2021	\$927,371	\$5,593,556.44	\$84,822.86	\$25,446.86	1.506%
FY 2022					
FY 2023					
FY 2024					
FY 2025					
Totals	\$5,375,409	N/A	\$302,970	\$90,891	N/A

# ATTACHMENT 6

## PT. LOMA WASTEWATER TREATMENT PLANT FACILITIES CONDITION ASSESSMENT



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POINT LOMA WTP

# Facilities Condition Assessment



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## MetroTAC Presentation

October 20, 2021





# AGENDA

- 1. Introduction**
- 2. Project Overview**
- 3. Results and Recommendations**



An aerial photograph of a large, circular, light-blue industrial water treatment tank. The tank has a metal walkway and railings on top. It is situated in a dry, hilly area with green shrubs and a few trees. A red vertical line runs through the center of the image, and a red circle with a white center is overlaid on the left side of the tank. The number '01' is written in red inside the white circle. A semi-transparent white circle is overlaid on the right side of the tank, containing the word 'INTRODUCTION' in red capital letters, followed by a short black horizontal line.

**01**

## **INTRODUCTION**

---

# Team



Mandira Sudame  
**HDR**



Michael Flores  
**HDR**



Dean Gipson  
**HDR**



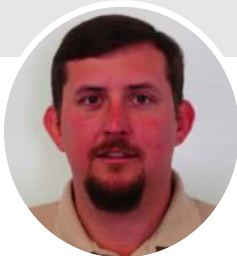
Badri Badriyha  
**HDR**



Tom McCormack  
**HDR**



Bill Haberstroh  
**JACOBS**



Allen Davis  
**JACOBS**



Paula Silva  
**JACOBS**



Matt Crowley  
**JACOBS**



Gerry Green  
**MPA**



Andrew Jamison  
**Jamison**





**02**

**PROJECT  
OBJECTIVES**

---

# Project Objectives

- 01** Perform **visual assessments** of structural, mechanical and electrical components of assets within each process area.
- 02** **Assess asset Condition** and perform **risk analysis**.
- 03** **Make recommendations** for repair, rehabilitation and replacement.
- 04** **Prioritize recommendations** and **set schedule** for future assessment needs.
- 05** Deliver **Condition Assessment Report**.

# Field Inspections

- **10-Week Field Work:**  
09/14/2020 through 11/25/2020
- **3 Teams; 14 Staff Onsite**
- **Inspections Included:**
  - ✓ Visual assessments of all mechanical, structural and electrical assets by process area
  - ✓ Confined space entry assessments of Headworks, Grit Tanks, NEOC, Sedimentation tanks and Digesters CD1
  - ✓ Concrete core samples SM18
- **Data Collection using Survey 123**
- **Maintenance Input Workshops**



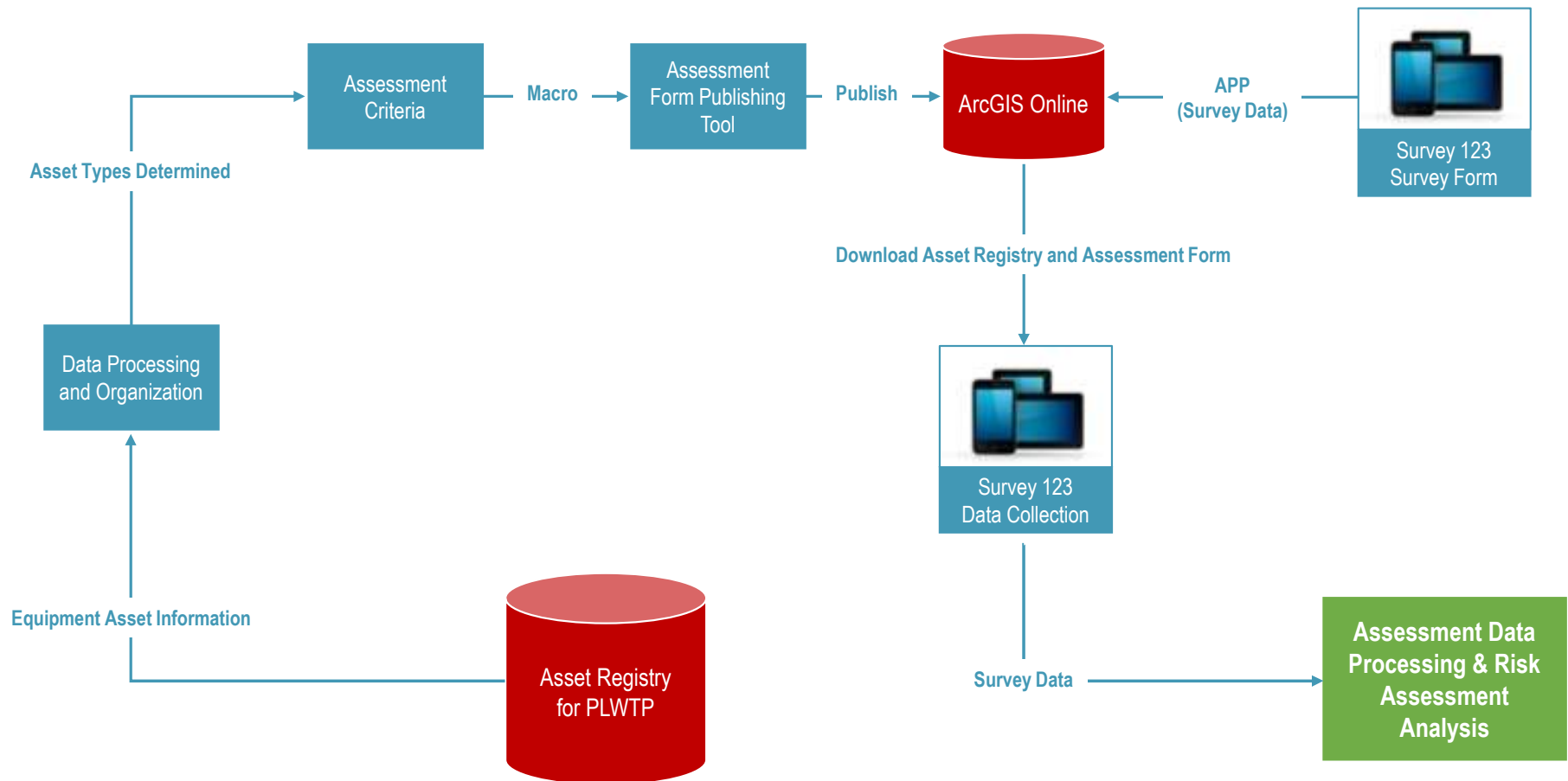
## Slide 8

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**GD1**      should digester be plural or did we only get into one of them?  
Gipson, Dean, 9/9/2021

**SM18**      we only got inside 1  
Sudame, Mandira, 9/9/2021

# Data Workflow



# Likelihood of Failure (LoF)

## Factor Definitions & Weighting

Condition Assessment Score	Score
Maximum Score of Key Criteria OR Average Score of All Criteria, whichever is higher	1 to 10

Remaining Useful Life	Score
< 5 years	5
6 to 10 years	4
11 to 15 year	3
16 to 20 years	2
> 20 years	1

Maintenance Impacts	Score
Staff indicate major maintenance impacts	5
Staff indicate minor significant maintenance impacts	3

Likelihood Factor	Factor Weight	Max Value	Max Weighted Score
Maintenance Impacts	2	5	10
Remaining Useful Life	4	5	20
Condition Assessment	5	10	50

$\Sigma$  Weighted Likelihood Factors =  
**Likelihood of Failure Score**

Max Score = **80**



# Likelihood of Failure (LoF) - Electrical

## Factor Definitions & Weighting

Condition Assessment Score	Score	Remaining Useful Life	Score	Environmental Conditions	Score	Preventative Maintenance	Score
Maximum Score of Key Criteria OR Average Score of All Criteria, whichever is higher	1 to 10	< 5 years	5	Indoor Non-Conditioned High Heat Gain Space	5	Preventive Maintenance Deferred or Non-Existent	2
		6 to 10 years	4	Outdoors Exposed to Weather	3		
		11 to 15 year	3	Indoor Non-Conditioned Low Heat Gain Space	2	Preventative Maintenance Current	1
		16 to 20 years	2	Indoor Conditioned Electrical Room	1		
		> 20 years	1				

Likelihood Factor	Factor Weight	Max Value	Max Weighted Score
Condition Assessment	5	10	50
Remaining Useful Life	5	5	25
Environmental Conditions	2	5	10
Preventative Maintenance	3	2	6

$\Sigma$  *Weighted Likelihood Factors* =  
*Likelihood of Failure Score*

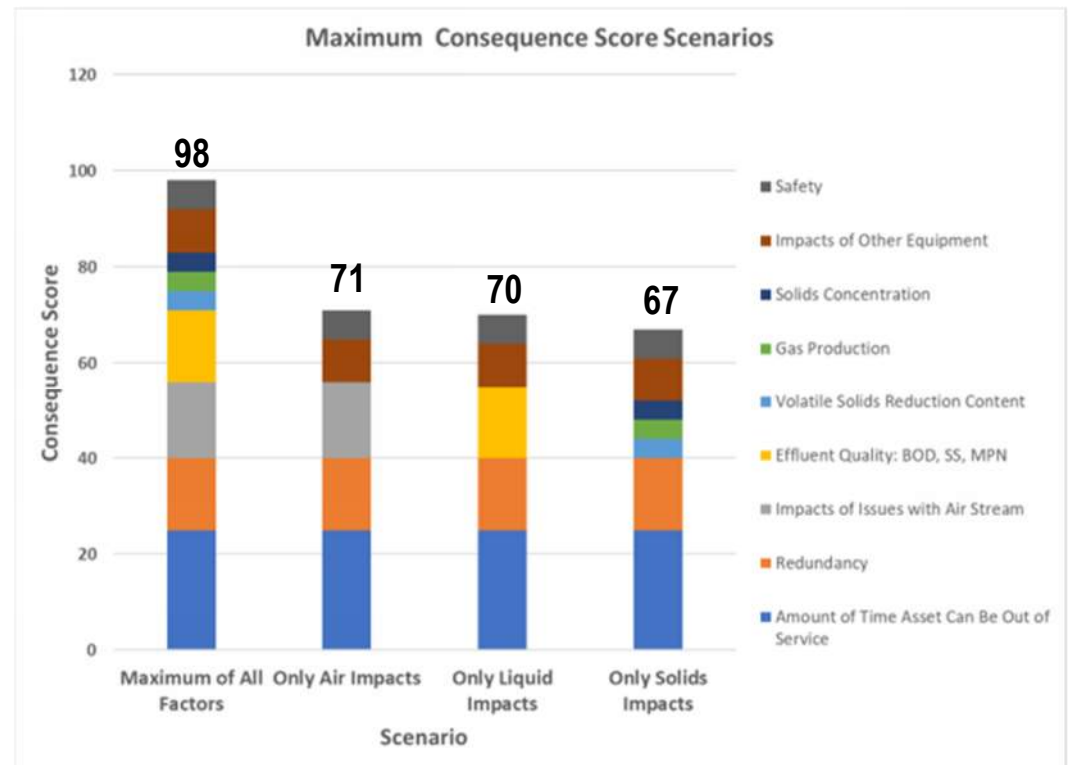
Max Score = **91**

# Consequence of Failure (CoF)

## Factor Weighting and Maximum Scores

Consequence Factor	Factor Weight	Max Value	Max Weighted Score
Safety	6	1	6
Impacts on Other Equipment	3	3	9
Volatile Solids Reduction	2	2	4
Gas Production	2	2	4
Sludge Solids Concentration	2	2	4
Effluent Quality – BOD, SS, MPN	5	3	15
Impacts of Issues with Air Stream	4	4	16
Redundancy	3	5	15
Amount of Time Asset Can Be Out of Service	5	5	25

$\sum \text{Weighted Consequence Factors} =$   
**Consequence of Failure Score**



# Consequence of Failure (LoF) - Electrical

## Factor Definitions & Weighting

Equipment Redundancy	Score	Safety Hazard Status	Score	Sole Power Supply Impact	Score	Distribution System Level	Score
No Co-Located Similar Equipment	5	Current Condition - Increased Hazard Level	2	Sole Power Supply to 2 or More Process Areas	5	Primary Utility or Generation Bus Level	5
Co-Located Similar Equipment - No Alternate Power source	2			Sole Power Supply to 1 Process Areas	3	Primary Distribution Bus Level	4
Co-Located Similar Equipment - Alternate Power Source	1	Current Condition - Normal Hazard Level	1	All Process Areas served have Alternate Source Service	2	Unit Substation (Primary and Secondary)	3
						Intermediate Secondary Distribution Bus Level	2
						Motor Control Center Level	1

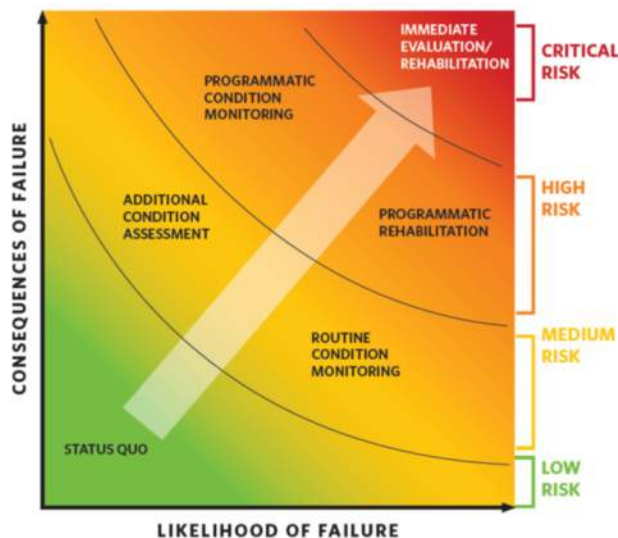
Likelihood Factor	Factor Weight	Max Value	Max Weighted Score
Equipment Redundancy	3	5	15
Safety Hazard Status	6	2	12
Distribution System Level	3	5	15
Sole Power Supply Impact	3	3	9

$\Sigma$  Weighted Consequence Factors =

**Consequence of Failure Score**

Max Score = **51**

# Risk Management & Prioritization Strategies



LoF	CoF	Risk Category	Risk Management Strategy	Target Timeframe
High	High	Critical	Priority 1: Near-Term Remediation	1-2 years
High	Moderate	High	Priority 2: Programmatic Rehab/ Condition Monitoring	2-5 years
High	Low	Medium	Priority 3: Routine Condition Monitoring/ Additional Condition Assessment	5-10 years
Moderate	High	High	Priority 2: Programmatic Rehab/ Condition Monitoring	2-5 years
Moderate	Moderate	Medium	Priority 3: Routine Condition Monitoring/ Additional Condition Assessment	5-10 year
Moderate	Low	Low	No Action Required	-
Low	High	Medium	Priority 3: Routine Condition Monitoring/ Additional Condition Assessment	5-10 year
Low	Moderate	Low	No Action Required	-
Low	Low	Low	No Action Required	-



**03**

**RESULTS &  
RECOMMENDATIONS**


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# Critical Risk Assets Summary

Process Area	Total Assets Inspected	Critical Risk Assets	Critical Risk Assets % of Total Assets
Headworks	29	8	28
Grit Removal	254	0	-
Primary Sedimentation	367	29	8
Effluent Discharge System	28	8	29
Anaerobic Digesters	459	99	22
Digested Sludge	163	7	4
Foul Air System	128	46	36
Chemical Feed System	80	9	11
Buildings and Site	193	0	-
GUF	145	10	7
Main Switchgear	3	2	67
Power Centers	7	7	100
ATS	6	6	100
MCC	34	5	15



# Prioritization

Priority	Action	Implementation Time period
1	CIP Projects; Immediate action needed	Within 1-2 years 
2	Maintenance and Rehabilitation Projects	within 2 to 5 years
3	Routine Assessment and Maintenance	within 5 to 10 years

## Slide 17

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**GD4** For priority 1 projects, be ready to answer that, although these should be completed within 1 to 2 years that really means the City will start the process. Any CIP for the City is a 4 year process (plan, budget, design, construct)

Gipson, Dean, 9/9/2021

**PC2** good point. I meant to say something similar in the meeting yesterday

Paddack, Christina, 9/9/2021

# Level 5 Cost Estimate

- Planning level costs
- Direct Costs
- Indirect Costs
- Construction premium

Cost Factor	Percentage
Administration costs	7
Design costs	8
Construction management costs	10
Bond and insurance	5
Contingency	20
<b>TOTAL</b>	<b>50</b>
Construction premium*	30
<b>Total with Construction Premium</b>	<b>80</b>

# Overall PLWTP Facilities – Priority 1 CIP

Project ID	No. of Assets	Direct Cost	Indirect Cost	Total Cost	Project Description
CIP-HWK-01	13	\$8,085,000	\$6,402,500	\$14,487,500	Replace 5 influent screens, rehabilitate channels with needed modification to accommodate new screens, replace conveyors, washer and compactor, motors, VFDs and drives with all associated electrical, instrumentation and mechanical systems.
CIP-GRT-01	15	\$300,000	\$150,000	\$450,000	Replace 15 centrifugal pumps with associated motors, controls, electrical, piping and valves.
CIP-GRT-02	3	\$840,000	\$420,000	\$1,260,000	Replace 3 blowers with motors, piping, electrical and instrumentation systems.
CIP-PST-01	7	\$850,000	\$425,000	\$1,275,000	Replace the entire scum concentrator system with new concentrators, pumps, motors, piping, drives, electrical and control systems.
CIP-PST-02	23	\$28,000,000	\$22,400,000	\$50,40,000	Rehabilitation of all 12 sedimentation tanks fixing leaks and deteriorated concrete surfaces, structural damage, replacing worn and damaged weirs, chains and flights, replacing liners and corroded metals.
CIP-PST-03	54	\$2,250,000	\$1,125,000	\$3,375,000	Replacement of 18 progressive cavity pumps with drive gears, motors, piping, electrical and control systems.
CIP-PST-04	12	\$1,800,000	\$900,000	\$2,700,000	Replacing aging and corroded primary sedimentation tanks covers with new covers and seals to enhance odor control and prevent fugitive emissions.
CIP-PST-05	24	\$960,000	\$480,000	\$1,440,000	Replace deteriorated sludge collection chain drives.
CIP-PST-06	24	\$720,000	\$360,000	\$1,080,000	Replace and upgrade sludge collection chains, sprockets and shafts.
CIP-EDS-01	8	\$8,000,000	\$4,000,000	\$12,000,000	Replace 4 NEOC traveling screens and 4 SEOC traveling screens with needed modification and rehabilitation of channels.
CIP-EDS-02	3	\$2,000,000	\$1,000,000	\$3,000,000	Structural rehabilitation of NEOC throttling valve vault, emergency spillway and vortex structure.
CIP-BLD-01	26	\$474,000	\$237,000	\$711,000	Replacement of failed or heavily corroded HVAC systems.
CIP-BLD-02	3	\$140,000	\$70,000	\$210,000	Replacement of 3 deteriorated monorail cranes.
<b>Total</b>	<b>215</b>	<b>\$54,419,000</b>	<b>\$37,969,500</b>	<b>\$92,388,500</b>	

# Electrical Facilities – Priority 1 CIP

Project ID	No. of Assets	Direct Cost	Indirect Cost	Total Cost	Project Description
CIP-ELC-01	7	\$3,750,000	\$1,875,000	\$5,625,000	Replace (6) Power Center Unit Substations. Replace (1) Secondary Switchgear.
CIP-ELC-02	4	\$700,000	\$350,000	\$1,050,000	Replace (4) Motor Control Centers.
CIP-ELC-03	7	\$1,300,000	\$650,000	\$1,950,000	Replace (7) Motor Control Centers.
CIP-ELC-04	8	\$1,600,000	\$800,000	\$2,400,000	Replace (8) Motor Control Centers.
CIP-ELC-05	9	\$1,420,000	\$710,000	\$2,130,000	Replace (9) Motor Control Centers.
CIP-ELC-06	6	\$300,000	\$150,000	\$450,000	Replace (6) Motor Control Centers.
CIP-ELC-07	3	\$120,000	\$60,000	\$180,000	Replace (1) Battery and Charger System. Repair Conduits and Junctions Boxes.
<b>Total</b>	<b>44</b>	<b>\$9,190,000</b>	<b>\$4,595,000</b>	<b>\$13,785,000</b>	

# Gas Utilization Facilities – Priority 1 CIP

Project ID	No. of Assets	Direct Cost	Indirect Cost	Total Cost	Project Description
GUF-C1	6	\$1,800,000	\$900,000	\$2,700,000	Rebuild Caterpillar engines 1 and 2 and perform synchronization of emergency generator, which includes dismantling and shipping generators 1 and 2 for overhaul at vendor facility, synchronizing generators 1 and 2, repair skids, and coating and replacing insulation.
GUF-C2	3	\$400,000	\$200,000	\$600,000	Replace lube oil, diesel fuel, and make-up water tanks.
GUF-C3	9	\$1,080,000	\$540,000	\$1,620,000	Replace two supply air fans with motors; replace the ventilation air ducting, grills, and accessories in the basement. Upgrade the ventilation system to provide proper drainage, replace the lining and coating for the supply air rooms. Strip and coat the metal doors for the supply air rooms. Replace the air supply filters. Repair the heat exchangers, and upgrade and replace the heat exchanger insulation.
GUF-C4	9	\$540,000	\$270,000	\$810,000	Replace two air handling units, one air conditioning unit, lube pump, two gas compressors, propane tank, and cooling tower with accessories.
<b>Total</b>	<b>27</b>	<b>\$3,820,000</b>	<b>\$1,910,000</b>	<b>\$5,730,000</b>	



# Overall PLWTP Facilities – Priority 2 Rehab & Repair

Project ID	No. of Assets	Direct Cost	Indirect Cost	Total Cost	Project Description
M-HWK-01	10	\$50,000	\$25,000	\$75,000	Repair and maintain gates and actuators, coating and corrosion, missing or damaged components.
M-HWK-02	3	\$12,000	\$6,000	\$18,000	Repair coating and corroded metal.
M-GRT-01	7	\$35,000	\$17,500	\$52,500	Perform maintenance, coating, mitigate corrosion and check performance.
M-GRT-02	13	\$118,000	\$59,000	\$177,000	Repair and maintain equipment, leaks, coating, corrosion and missing components.
M-GRT-03	24	\$155,000	\$77,500	\$232,500	Perform rebuilds for pumps and motors, coating and corrosion mitigation.
M-GRT-04	20	\$20,000	\$10,000	\$30,000	Repair broken and non-functioning rotameters, coating and corrosion repairs.
M-GRT-05	45	\$226,000	\$113,000	\$339,000	Repair and maintain gates and actuators, coating and corrosion, missing or damaged components.
M-GRT-06	6	\$180,000	\$144,000	\$324,000	Repair damaged lining, corroded piping and platforms, covers and seals.
M-GRT-07	29	\$58,000	\$29,000	\$87,000	Maintain valves, replace missing or broken handles, actuators, coating and corrosion mitigation, provide missing tags.
M-PST-01	4	\$20,000	\$10,000	\$30,000	Rebuild blowers.
M-PST-02	4	\$24,000	\$12,000	\$36,000	Rebuild pumps.
M-PST-03	13	\$39,000	\$19,500	\$58,500	Repair damaged or broken panels and valves.
M-PST-04	39	\$76,000	\$38,000	\$114,000	Perform maintenance, coating and corrosion mitigation, replace broken components.
M-PST-05	12	\$96,000	\$48,000	\$144,000	Rebuild pumps and motors, replace cables and connectors.
M-PST-06	24	\$192,000	\$96,000	\$288,000	Rebuild pumps and motors.
M-PST-07	36	\$180,000	\$90,000	\$270,000	Repair and maintain gates and actuators, coating and corrosion, missing or damaged components.
M-PST-08	40	\$400,000	\$200,000	\$600,000	Repair missing component misaligned sprockets and broken flights.
M-EDS-01	9	\$195,000	\$97,500	\$292,500	Perform maintenance, coating and corrosion mitigation, replace broken components.
M-EDS-02	5	\$90,000	\$45,000	\$135,000	Perform maintenance, coating and corrosion mitigation, replace broken components.
M-BLD-01	7	\$50,000	\$25,000	\$75,000	Service HVAC system, replace filters, check performance, replace desiccants for compressors, coating & corrosion mitigation.
M-BLD-02	30	\$372,500	\$186,250	\$558,750	Service HVAC system, replace filters, check performance.
M-BLD-03	10	\$80,000	\$40,000	\$120,000	Perform maintenance, coating and corrosion mitigation, replace broken components.
M-MS-C01	9	\$60,000	\$30,000	\$90,000	Perform maintenance, coating and corrosion mitigation, replace broken components.
<b>Total</b>	<b>399</b>	<b>\$2,728,500</b>	<b>\$1,418,250</b>	<b>\$4,146,750</b>	

# Electrical Facilities – Priority 2 Rehab & Repair

Project ID	No. of Assets	Direct Cost	Indirect Cost	Total Cost	Project Description
M-ELC-08	6	\$1,800,000	\$900,000	\$2,700,000	Repair 6 MCCs.
Total	6	\$1,800,000	\$900,000	\$2,700,000	

## Gas Utilization Facilities – Priority 2 Rehab & Repair

Project ID	No. of Assets	Direct Cost	Indirect Cost	Total Cost	Project Description
GUF-M1	9	\$135,000	\$67,500	\$202,500	Perform needed maintenance and rehabilitation, repair coating and insulation and check performance to bring assets to acceptable operating condition.
GUF-M2	3	\$45,000	\$22,500	\$67,500	Perform needed maintenance and rehabilitation, repair coating and check performance to bring assets to acceptable operating condition.
GUF-M3	16	\$96,000	\$48,000	\$144,000	Inspect assets, check operating condition, provide detailed list of needed repairs and upgrades as necessary to maintain assets in proper operating condition.
<b>Total</b>	<b>28</b>	<b>\$276,000</b>	<b>\$138,000</b>	<b>\$414,000</b>	

## Overall PLWTP Facilities – Priority 3 Routine Assessment

Project ID	No. of Assets	Direct Cost	Indirect Cost	Total Cost	Project Description
A-GRT-01	8	\$40,000	\$20,000	\$60,000	Routine and/or additional Condition Assessment and Monitoring during the next 10 years.
A-GRT-02	7	\$35,000	\$17,500	\$52,500	Routine and/or additional Condition Assessment and Monitoring during the next 10 years.
A-GRT-03	7	\$35,000	\$17,500	\$52,500	Routine and/or additional Condition Assessment and Monitoring during the next 10 years.
A-PST-01	13	\$65,000	\$32,500	\$97,500	Routine and/or additional Condition Assessment and Monitoring during the next 10 years.
A-PST-02	34	\$170,000	\$85,000	\$255,000	Routine and/or additional Condition Assessment and Monitoring during the next 10 years.
A-EDS-02	3	\$15,000	\$7,500	\$22,500	Routine and/or additional Condition Assessment and Monitoring during the next 10 years.
A-BLD-01	30	\$150,000	\$75,000	\$225,000	Routine and/or additional Condition Assessment and Monitoring during the next 10 years.
A-AXL-01	15	\$75,000	\$37,500	\$112,500	Routine and/or additional Condition Assessment and Monitoring during the next 10 years.
<b>Total</b>	<b>117</b>	<b>\$585,000</b>	<b>\$292,500</b>	<b>\$877,500</b>	

# Instrumentation – Priority 3 Routine Assessment

Project ID	No. of Assets	Direct Cost	Indirect Cost	Total Cost	Project Description
INS-05-A1	33	\$303,000	\$151,500	\$454,500	Area 05 Flow Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-05-A2	6	\$14,000	\$7,000	\$21,000	Area 05 Level Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-10-A1	10	\$30,000	\$15,000	\$45,000	Area Analyzer Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-10-A2	13	\$113,000	\$56,500	\$169,500	Area 10 Flow Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-10-A3	26	\$93,000	\$46,500	\$139,500	Area 10 Level Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-10-A4	2	\$4,000	\$2,000	\$6,000	Area10 Temperature Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-49-A1	10	\$30,000	\$15,000	\$45,000	Area 49 Analyzer Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-49-A2	3	\$16,000	\$8,000	\$24,000	Area 49 Density Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-49-A3	27	\$303,000	\$151,500	\$454,500	Area 49 Flow Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-49-A4	14	\$60,000	\$30,000	\$90,000	Area 49 Level Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-49-A5	28	\$203,000	\$101,500	\$304,500	Area 49 Pressure Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-49-A6	12	\$42,000	\$21,000	\$63,000	Area 49 Temperature Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-56-A1	5	\$80,000	\$40,000	\$120,000	Area 56 Flow Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-56-A2	6	\$21,000	\$10,500	\$31,500	Area 56 Level Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-57-A3	29	\$246,000	\$123,000	\$369,000	Area 57 Flow Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-57-A4	4	\$28,000	\$14,000	\$42,000	Area 57 Level Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-60-A1	20	\$60,000	\$30,000	\$90,000	Area 60 Analyzer Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-60-A2	18	\$235,000	\$117,500	\$352,500	Area 60 Flow Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-60-A3	7	\$33,000	\$16,500	\$49,500	Area 60 Level Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-63-A1	1	\$7,000	\$3,500	\$10,500	Area 63 Analyzer Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-71-A1	3	\$30,000	\$15,000	\$45,000	Area 71 Flow Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-71-A2	5	\$25,000	\$12,500	\$37,500	Area 71 Level Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-71-A3	1	\$7,000	\$3,500	\$10,500	Area 71 Pressure Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-71-A4	3	\$13,000	\$6,500	\$19,500	Area 71 Temperature Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-80-A1	53	\$495,000	\$247,500	\$742,500	Area 80 Flow Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-80-A2	6	\$42,000	\$21,000	\$63,000	Area 80 Level Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-80-A3	17	\$119,000	\$59,500	\$178,500	Area 80 Pressure Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-80-A4	38	\$216,000	\$108,000	\$324,000	Area 80 Temperature Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-99-A1	1	\$23,000	\$11,500	\$34,500	Area 99 Flow Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
INS-99-A2	1	\$7,000	\$3,500	\$10,500	Area 99 Pressure Instruments Routine and/or additional Condition Assessment and Monitoring during the next 10 years
<b>Total</b>	<b>402</b>	<b>\$2,898,000</b>	<b>\$1,449,000</b>	<b>\$4,347,000</b>	

## Gas Utilization Facilities – Priority 3 Routine Assessment

Project ID	No. of Assets	Direct Cost	Indirect Cost	Total Cost	Project Description
GUF-A1	15	\$75,000	\$37,500	\$112,500	Routine and/or additional condition assessment and monitoring during the next 10 years.
GUF-A2	5	\$25,000	\$12,500	\$37,500	Routine and/or additional condition assessment and monitoring during the next 10 years.
GUF-A3	15	\$75,000	\$37,500	\$112,500	Routine and/or additional condition assessment and monitoring during the next 10 years.
<b>Total</b>	<b>35</b>	<b>\$175,000</b>	<b>\$87,500</b>	<b>\$262,500</b>	



# Recommendations Summary

Priority	Direct Cost	Indirect Cost	Total Cost	Total No. of Projects	Initiation/Planning Period
1	\$67,429,000	\$44,474,500	\$111,903,500	24	1-2 years
2	\$4,804,500	\$2,456,250	\$7,260,750	27	2-5 years
3	\$3,658,000	\$1,829,000	\$5,487,000	41	5-10 years



# Comparison of PLWTP Primary Sedimentation Tank Rehabilitation Costs

Doug Owen

Pure Water Consultant Team Manager, Stantec

October 20, 2021

# HDR Cost Estimate for Rehabilitation of PSBs 1-12

(Source: PLWTP FCA MetroTAC Workshop\_Master.pdf)

Item	Cost (\$M) September 2021
Direct Cost	\$34.6
<b>Indirect Cost</b> <ul style="list-style-type: none"> <li>• <i>Construction Premium (30%)*</i></li> <li>• <i>Bond &amp; Insurance (5%)</i></li> <li>• <i>Contingency (20%)</i></li> <li>• <i>Design (8%)</i></li> <li>• <i>CM (10%)</i></li> <li>• <i>Admin (7%)</i></li> </ul>	\$25.7
<b>Total Construction Cost</b>	<b>\$60.3</b>
<b>Delivery Cost</b>	<b>Included in Indirect Cost</b>
<b>Total Project Cost</b>	<b>\$60.3</b>

\* Only applied to confined space work





# Task Order 53 – Phase 2 Alternatives Refinement

## Cost Estimate of PLWTP PSB Replacement and Rehabilitation (Alt 1A)

Item	Cost (\$M) July 2020 (from T053)	Cost (\$M) Sept 2021 (Updated per ENR)
<b>Direct Cost</b>		
• PSBs 1-6 Replacement	\$57.3	\$62.7
• <u>PSBs 7-12 Rehabilitation</u>	<u>\$18.9</u>	<u>\$20.8</u>
• SUBTOTAL	\$76.2	\$83.5
<b>Indirect Cost</b>	\$53.4	\$58.5
• Contractor Gen Cond (15%)		
• Start-Up, Training, O&M (2%)		
• Contingency (40%)		
• Bldg Risk, Liability, Auto insurance (2%)		
• Payment and Performance Bond (1.5%)		
<b>Total Construction Cost</b>	<b>\$130</b>	<b>\$142</b>
<b>Delivery Cost</b>	<b>\$36.8</b>	<b>\$40.3</b>
• Pre-Design (2.1%)		
• Detailed Design (7.1%)		
• Eng Serv During Construction (1.4%)		
• CM (7.2%)		
• Admin (10.6%)		
<b>Total Project Cost</b>	<b>\$167</b>	<b>\$182</b>





# Comparison of Cost Estimates (\$M – Sept 2021)

Item	HDR	T053 Alt 1A Updated to Sept 2021
Direct Cost	<b>\$34.6</b> <i>(Rehab PSB 1-12)</i>	<b>\$83.5</b> <i>(Replace PSB 1-6; Rehab PSB 7-12)</i>
Indirect Cost	<b>\$25.7</b>	<b>\$58.5</b>
Total Construction Cost	<b>\$60.3</b>	<b>\$142</b>
Delivery Cost	Included in Indirect Cost	<b>\$40.3</b>
Total Project Cost	<b>\$60.3</b>	<b>\$182</b>





A decorative graphic consisting of two horizontal white lines, each with a white circle in the center, framing the word 'Questions'.

# Questions

ATTACHMENT 7

CENTRAL AREA

PHASE II CONCEPT

EVALUATION

LAKE MURRAY AND

SAN VICENTE

RESERVOIR RELEASE

# Central Area Phase 2 Concept Evaluation Murray and San Vicente Reservoir Release

John Stufflebean

Assistant Director for Pure Water and Technical Services

Public Utilities Department

October 20, 2021



- Continued Independent Advisory Panel (IAP) coordination
- Completed Phase 2 Alternatives Refinement effort to identify facilities for producing the next 53 mgd of Pure Water
- Began Phase 2 Demonstration Design in September 2021
- Assessing reservoir options for purified water release



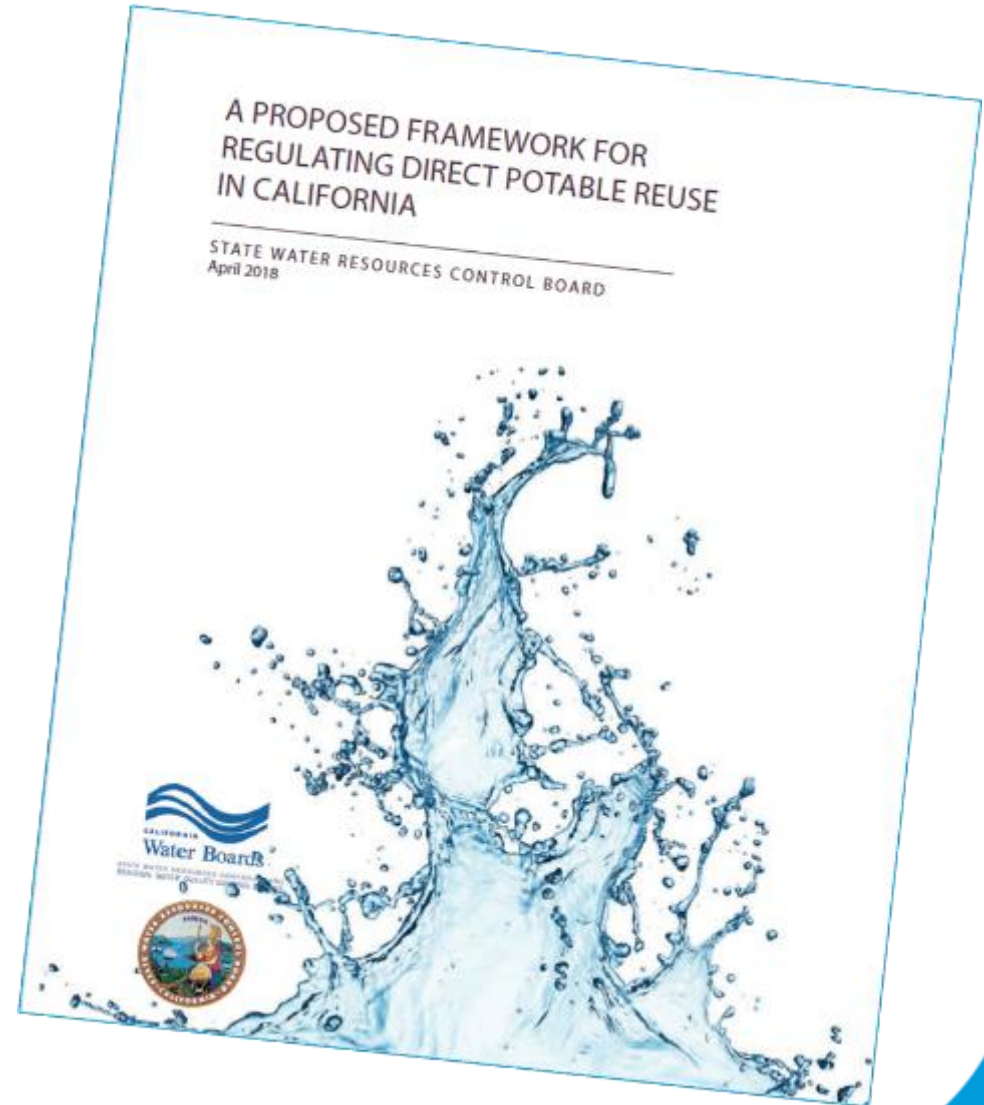
# Phase 2 Reservoir Selection

<b>Murray Reservoir</b>	<b>San Vicente Reservoir</b>
<b>Direct Potable Reuse</b>	<b>Indirect Potable Reuse</b>
<b>Operational challenges</b>	<b>Pipeline through other jurisdictions</b>
<b>Local water resources constraints</b>	<b>CWA coordination</b>
<b>Must match production and demand</b>	<b>Cooperation with other agencies</b>

# DPR Has More Strict Requirements Than IPR

- Higher levels of pathogen removal
  - No credit for operating drinking water plant
- Specified technology for chemical removal
- Tight operations requirements to offset shorter response time
- Strong focus on “sewershed protection” similar to “watershed protection”

City working with DDW to provide practical example of DPR implementation





Pure Water Production	Drinking Water Demand
Production of 83 mgd after Phase 2	Water demand continues to decline
53 mgd in Central Area	Periods when Alvarado WTP demand is less than 53 mgd
Periods when production exceeds demand	Low demand periods during wet weather
Storage in San Vicente Reservoir may increase flexibility for other sources	Murray Reservoir connected to the El Capitan system; storage an issue

A decorative graphic consisting of two horizontal white lines, each with a white circle in the center, framing the word 'Questions'.

# Questions

# ATTACHMENT 8

## METRO FLOWS AND STRENGTHS 2050



# METRO FLOWS AND STRENGTHS 2050



# AVERAGE SEWAGE GENERATION BY AGENCY

AVERAGE SEWAGE GENERATION BY AGENCY			
Agency	Average Flow, mgd	Diversions, mgd	Average Flow Remaining, mgd
Chula Vista	19.580	0.0	19.580
Coronado	2.438	0.0	2.438
Del Mar	0.030	0.0	0.030
East Otay Mesa	4.302	0.0	4.302
El Cajon	7.594	6.6	0.994
Imperial Beach	2.307	0.0	2.307
La Mesa	4.813	0.0	4.813
Lakeside/Alpine	6.729	5.9	0.829
Lemon Grove	2.286	0.0	2.286
National City	3.911	0.0	3.911
Otay	0.382	0.0	0.382
Padre Dam	2.486	2.5	0.000
Poway	3.109	0.0	3.109
Spring Valley	8.353	0.0	8.353
Wintergardens	0.924	0.0	0.924
<b>SUBTOTAL</b>	<b>69.2</b>	<b>15.0</b>	<b>54.3</b>
San Diego			
Wastewater	110.155	0	110.155
Water	0	0	0.000
<b>SUBTOTAL</b>	<b>110.2</b>	<b>0.0</b>	<b>110.2</b>
<b>TOTAL</b>	<b>179.4</b>	<b>15.0</b>	<b>164.4</b>

# METRO AVERAGE TREATMENT NEEDS

METRO AVERAGE TREATMENT NEEDS	
Flow Type	Flow, mgd
Sewage Generated	164.4
Brine	
San Diego	14.3
Other	1.6
Centrate	
San Diego	6.4
Other	0.1
Total	186.8

# TREATMENT LOCATION AVERAGE FLOWS

TREATMENT LOCATION AVERAGE FLOWS	
Flow Type	Flow, mgd
Total Flow	186.8
Diversion Area	Flow, mgd
NCWRP	53
CAWRP	69
SBWRP	15
Subtotal	137
Total To Point Loma After Diversion	49.8



# AVERAGE METRO TREATMENT DISCHARGE RIGHT

AVERAGE METRO TREATMENT DISCHARGE RIGHT		
Agency	Average Flow, mgd	Brine, mgd
Chula Vista	19.580	0
Coronado	2.438	0
Del Mar	0.030	0
East Otay Mesa	4.302	0
El Cajon	0.994	0.6
Imperial Beach	2.307	0
La Mesa	4.813	0
Lakeside/Alpine	0.829	0.6
Lemon Grove	2.286	0
National City	3.911	0
Otay	0.382	0
Padre Dam	0.000	0.4
Poway	3.109	0
Spring Valley	8.353	0
Wintergardens	0.924	0
<b>SUBTOTAL</b>	<b>54.3</b>	<b>1.6</b>
San Diego		
Wastewater	110.155	0
Water	0.000	14.3
<b>SUBTOTAL</b>	<b>110.2</b>	<b>14.3</b>
<b>TOTAL</b>	<b>164.4</b>	<b>15.9</b>

FLOW CHECK	
Flow Type	Flow, mgd
Average Flow	164.4
Brine	15.9
Centrate	6.5
Diversions	-137
<b>Total</b>	<b>49.8</b>

# PEAK SEWAGE CAPACITY BY AGENCY

PEAK SPLIT BASED ON AVAILABLE CAPACITY BY AGENCY			
Agency	Peak Capacity, mgd	East County Diversions, mgd	Peak Capacity After East County Diversions, mgd
Chula Vista	60.6	0.0	60.6
Coronado	7.5	0.0	7.5
Del Mar	0.1	0.0	0.1
East Otay Mesa	13.3	0.0	13.3
El Cajon	23.5	6.6	16.9
Imperial Beach	7.1	0.0	7.1
La Mesa	14.9	0.0	14.9
Lakeside/Alpine	20.8	5.9	14.9
Lemon Grove	7.1	0.0	7.1
National City	12.1	0.0	12.1
Otay	1.2	0.0	1.2
Padre Dam	7.7	2.5	5.2
Poway	9.6	0.0	9.6
Spring Valley	25.8	0.0	25.8
Wintergardens	2.9	0.0	2.9
<b>SUBTOTAL</b>	<b>214.2</b>	<b>15.0</b>	<b>199.2</b>
San Diego			
Wastewater	340.8	0	340.8
Water	0.0	0	0.0
<b>SUBTOTAL</b>	<b>340.8</b>	<b>0.0</b>	<b>340.8</b>
<b>TOTAL</b>	<b>555.0</b>	<b>15.0</b>	<b>540.0</b>

# ETRO PEAK TREATMENT NEEDS

PEAK TREATMENT NEEDS	
Flow Type	Flow, mgd
Sewage Generated	540
Brine	
San Diego	15.8
Other	1.6
Centrate	
San Diego	5.5
Other	0.1
Total	563

# POINT LOMA PEAK FLOW NEEDS BEYOND AVERAGE FLOW

POINT LOMA PEAK FLOW NEEDS BEYOND AVERAGE FLOW	
Flow Type	Flow, mgd
Total Peak	563
Diversion Area	Flow, mgd
NCWRP	32
CAWRP	69
SBWRP	15
ECAWP	15
Subtotal	131
Total To Point Loma	432
Average Flow to Point Loma Including Brine and Centrate	49.8
Total Peak To Point Loma	382.2

# AL CAPACITY FOR REVISED BILLING PURPOSES

PEAK FLOW SPLIT BASIS BY AGENCY

Agency	Peak Capacity After East County Diversions, mgd	Average Flow, mgd	Peak Capacity for Revised Billing Purposes, mgd
Chula Vista	60.6	19.6	41.0
Coronado	7.5	2.4	5.1
Del Mar	0.1	0.0	0.1
East Otay Mesa	13.3	4.3	9.0
El Cajon	16.9	1.0	15.9
Imperial Beach	7.1	2.3	4.8
La Mesa	14.9	4.8	10.1
Lakeside/Alpine	14.9	0.8	14.1
Lemon Grove	7.1	2.3	4.8
National City	12.1	3.9	8.2
Otay	1.2	0.4	0.8
Padre Dam	5.2	0.0	5.2
Poway	9.6	3.1	6.5
Spring Valley	25.8	8.4	17.5
Wintergardens	2.9	0.9	1.9
<b>SUBTOTAL</b>	<b>199.2</b>	<b>54.3</b>	<b>145.0</b>
San Diego			
Wastewater	340.8	110.2	230.6
Water	0.0	0.0	0.0
<b>SUBTOTAL</b>	<b>340.8</b>	<b>110.2</b>	<b>230.6</b>
<b>TOTAL</b>	<b>540.0</b>	<b>164.4</b>	<b>375.6</b>

FLOW CHECK

Flow Type	Flow, mgd
Peak Flow	375.6
Average Flow	164.4
Brine	17.4
Centrate	5.6
Diversions	-131
<b>Total</b>	<b>432</b>

# FLOW STRENGTH

FLOW STRENGTH		
Agency	TSS, 1,000 lbs.	COD, 1,000 lbs.
Chula Vista	23,287.7	43,634.4
Coronado	3,248.4	4,605.2
Del Mar	40.1	43.2
East Otay Mesa	5,033.0	8,803.5
El Cajon	1,466.3	2,298.5
Imperial Beach	2,111.0	3,773.1
La Mesa	5,192.9	8,694.1
Lakeside/Alpine	1,043.6	1,791.0
Lemon Grove	2,275.1	4,449.1
National City	4,027.9	8,453.0
Otay	1,169.9	1,060.0
Padre Dam	0.0	0.0
Poway	3,592.0	5,606.7
Spring Valley	9,483.8	16,789.4
Wintergardens	1,267.0	1,978.1
<b>SUBTOTAL</b>	<b>63,239</b>	<b>111,979</b>
San Diego		
Wastewater	124,161.6	240,238.1
Water	0.0	0.0
<b>SUBTOTAL</b>	<b>124,162</b>	<b>240,238</b>
<b>TOTAL</b>	<b>187,400</b>	<b>352,217</b>

\*Based on 2018 numbers

# SUMMARY

SUMMARY TABLE					
Agency	Exhibit B Contract Capacity, mgd	Average Flow, mgd	Peak Flow, mgd	TSS, 1,000 lbs.	COD, 1,000 lbs.
Chula Vista	20.864	19.580	41.0	23,287.7	43,634.4
Coronado	3.250	2.438	5.1	3,248.4	4,605.2
Del Mar	0.876	0.030	0.1	40.1	43.2
East Otay Mesa	1.0	4.302	9.0	5,033.0	8,803.5
El Cajon	10.915	0.994	15.9	1,466.3	2,298.5
Imperial Beach	3.755	2.307	4.8	2,111.0	3,773.1
La Mesa	6.993	4.813	10.1	5,192.9	8,694.1
Lakeside/Alpine	4.841	0.829	14.1	1,043.6	1,791.0
Lemon Grove	3.027	2.286	4.8	2,275.1	4,449.1
National City	7.487	3.911	8.2	4,027.9	8,453.0
Otay	1.287	0.382	0.8	1,169.9	1,060.0
Padre Dam	6.225	0.000	5.2	0.0	0.0
Poway	5.894	3.109	6.5	3,592.0	5,606.7
Spring Valley	10.353	8.353	17.5	9,483.8	16,789.4
Wintergardens	1.309	0.924	1.9	1,267.0	1,978.1
<b>SUBTOTAL</b>	<b>88.078</b>	<b>54.3</b>	<b>145.0</b>	<b>63,239</b>	<b>111,979</b>
San Diego					
Wastewater	166.922	110.155	230.6	124,161.6	240,238.1
Water	0.0	0.000	0.0	0.0	0.0
<b>SUBTOTAL</b>	<b>166.922</b>	<b>110.2</b>	<b>230.6</b>	<b>124,162</b>	<b>240,238</b>
<b>TOTAL</b>	<b>255</b>	<b>164.4</b>	<b>375.6</b>	<b>187,400</b>	<b>352,217</b>



# ATTACHMENT 17

## METRO TAC WORK PLAN

**Metro TAC & JPA Work Plan**  
**Active & Pending Items**  
**January 2021**  
*Updated Items in Red Italics*

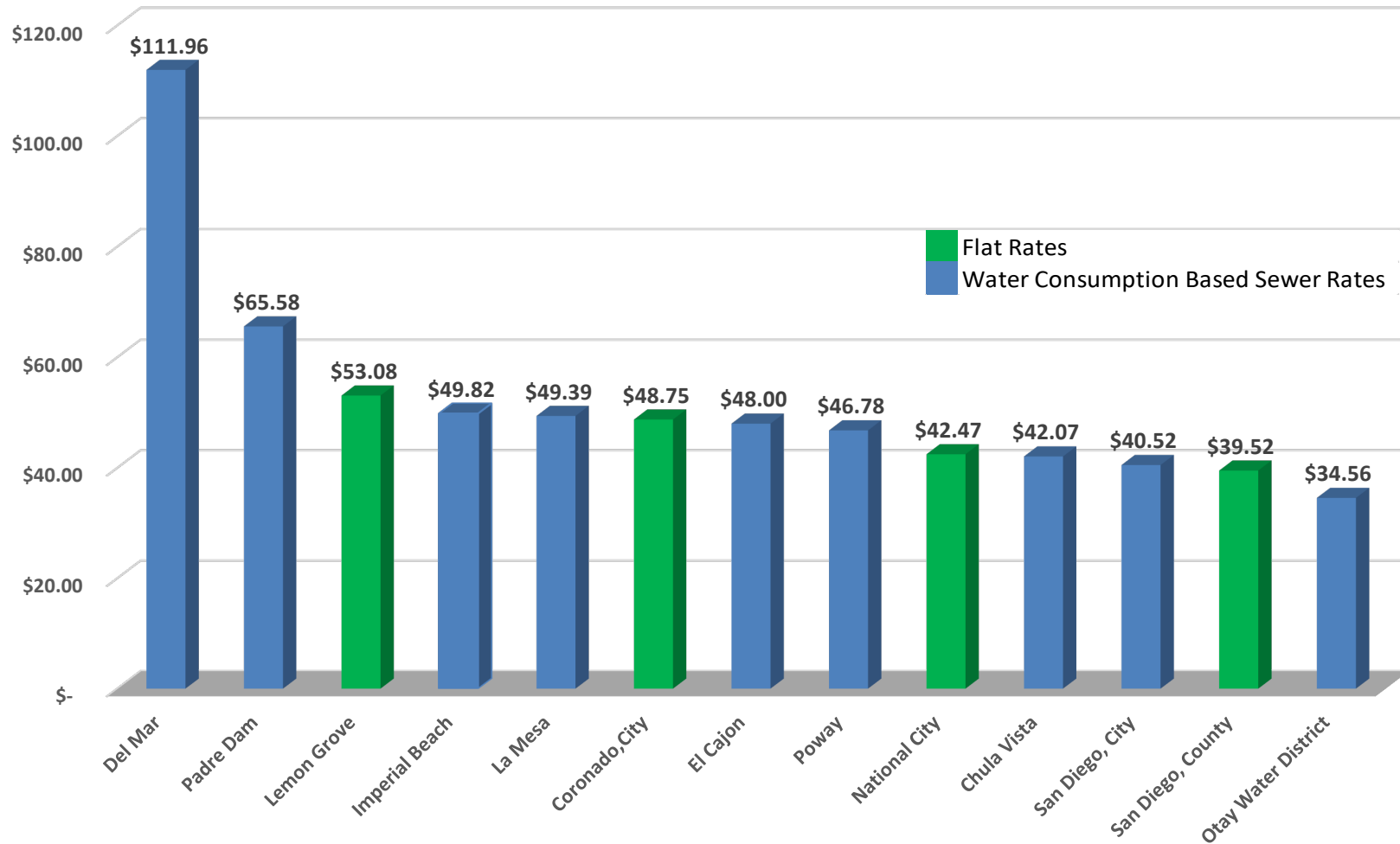
Active Items	Description	Member(s)
SB 332 Working Group	SB 332 (Hertzberg/Weiner) relates to wastewater treatment for recycled water and agencies with ocean outfalls. It requires the entity that owns the wastewater treatment facility that discharges through an ocean outfall and affiliated water suppliers (it defines water not wastewater suppliers) to reduce the facilities annual flow as compared to the average annual dry weather wastewater discharge baseline volume as prescribed by at least 50% on or before January 1, 2030 and by at least 95% on or before January 1, 2040. The working group was formed to track the process of this legislation.	<i>Yazmin Arellano</i> <i>Beth Gentry</i> <i>Hamed</i> <i>Hashemian</i>
Muni Transportation Rate Study Working Group	6/19: Working Group has presented an alternative plan which the City is reviewing.	Roberto Yano Yazmin Arellano Dan Brogadir Carmen Kasner Mark Niemiec Dexter Wilson SD staff
Point Loma Permit Ad Hoc	Metro Commission/JPA Ad Hoc established 9/17. GOAL: Create regional water reuse plan so that both a new, local, diversified water supply is created AND maximum offload at Point Loma is achieved to support legislation for permanent acceptance of Point Loma as a smaller advanced primary plant. Minimize ultimate Point Loma treatment costs and most effectively spend ratepayer dollars through successful coordination between water and wastewater agencies. <i>1/21 This group continues to meet as needed.</i>	Jerry Jones Jim Peasley Ed Spriggs Bill Baber Jill Galvez Metro TAC staff & JPA consultants
Phase II Pure Water Facilities Working Group	Created to work with SD staff & consultants on determining Phase II facilities and costs. <i>1/21: Alternatives have been narrowed to two.</i>	Roberto Yano Scott Tulloch Dexter Wilson SD staff & consultants
Phase I Financial Implementation Working Group	This working group was formed to continue to work on Section 2.9.1 and other financial implementations issues in Exhibit F associated with the Amended Restated Agreement. <i>1/21: Group will start meeting once the ARA is fully signed (January 2021) on a regular basis with a goal to complete all tasks by 1/22.</i>	Roberto Yano Karyn Keese Dexter Wilson SD staff & consultants
Phase II Disposal Agreement Working Group	This group was created to negotiate the 2 <sup>nd</sup> Amended Restated Agreement ARA2) which will incorporate the completed financial and other items from the first ARA. <i>1/21: Working Group is meeting with SD staff to set up framework for ARA2 process.</i>	Roberto Yano Eric Minicilli Karyn Keese Scott Tulloch Dexter Wilson SD staff & consultants
Industrial Wastewater Control Committee	Formed to work with San Diego on new standards for industrial waste discharge and cost allocation of same. <i>1/21: SD is trying to formalize a pretreatment rate case and has hired a consultant. Monthly updates are presented at TAC.</i>	<b>Beth Gentry</b> Interested JPA members Dexter Wilson SD Staff & Consultants



**Metro TAC & JPA Work Plan**  
**Active & Pending Items**  
**January 2021**  
*Updated Items in Red Italics*

Active Items	Description	Member(s)
JPA Website Update Working Group	The JPA Website, especially the New Director Manual, has not been updated for several years. <i>1/21: Working group has started revisions and is looking for technical members to assist.</i>	Roberto Yano Karyn Keese Lori Peoples
Exhibit E Audit	<i>1/21: FY2019 Exhibit E audit is in fieldwork stage. JPA team reviewing SD responses to sample questions.</i>	Karen Jassoy Karyn Keese Dexter Wilson
IRWMP	JPA Members should monitor funding opportunities at: <a href="http://www.sdirwmp.org">http://www.sdirwmp.org</a> <i>1/21: Beth Gentry continues to give monthly TAC updates. Details can be found in minutes of each meeting.</i>	Yazmin Arellano Beth Gentry
Changes in wastewater/water legislation	BBK, 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	BBK JPA members as appropriate

**Sewer Rate Comparison for Metro Participating Agencies**  
**Single Family Monthly Rates Based on 7 HCF of Water Usage**  
**Effective January 1, 2021 for FY 2021**



# 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 <sup>st</sup> email sent on 5/23/18 & 2 <sup>nd</sup> 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		
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