



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

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

**DATE:** Wednesday, September 16, 2020

**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.

An 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, September 14, 2020 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)

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1. Review and Approve MetroTAC Action Minutes for the Meetings of July 15 and August 19, 2020 (**Attachment**)
  2. Metro Commission/JPA Board Meeting Recap (Standing Item)
  3. **REPORT:** Update from Residuals Management Working Group (Padre Dam MWD/County of San Diego/Dexter Wilson/Scott Tulloch)
  4. **REPORT:** Update – Zoom Training - Sample Rejection Protocol (Edgar Patino)
  5. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Pump Station 2 Power Reliability and Surge Protection Design Consultant and Construction Management Contracts (Elif Cetin) (**Attachment**)
  6. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the First amendment to Service Contract Bid 10089637-20-W Agreement with American Process Group, Inc. (APG) for : Point Loma Wastewater Treatment Plant (PLWTP) Digesters C1 and C2 and Metro Biosolids Center (MBC) Holding Tank 17 Cleaning (Tom Rosales, Interim Asst. Director PUD) (**Attachment**)
  7. **Discussion:** Industrial Waste (Dexter Wilson/John Stufflebean)
  8. **Discussion:** Military Base Billing (Dexter Wilson/John Stufflebean)
  9. Metro Wastewater Update (Standing Item) (Edgar Patino)
  10. Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung)
  11. Pure Water Program Update (Standing Item) (John Stufflebean)
  12. Pure Water Phase II Update (John Stufflebean/Doug Owen) (**Attachment**)

13. Financial Update (Standing Item) (Karyn Keese)
14. IRWMP Update (Standing Item) (Yazmin Arellano)
15. **REPORT**: Update on Plan B Working Group (Eric Minicilli)
16. MetroTAC Work Plan (Standing Item) (Roberto Yano) (**Attachment**)
17. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting  
(**October 1, 2020**)
18. Other Business of Metro TAC
19. Adjournment ([To the next Regular Meeting October 21, 2020](#))

**Metro TAC 2020 Meeting Schedule**

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

ATTACHMENT 1

ACTION MINUTES FOR

THE MEETINGS OF

JULY 15, 2020

&

JOINT MEETING OF

AUGUST 19, 2020



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

**ACTION MINUTES**

**DATE OF MEETING:** July 15, 2020

**TIME:** 11:00 AM

**LOCATION:** Zoom Meeting held On Line

**MEETING ATTENDANCE:**

Roberto Yano, National City  
Beth Gentry, Chula Vista  
Ed Walton, Coronado  
Yazmin Arellano, El Cajon  
Dennis Davies, El Cajon  
Eric Minicilli, Imperial Beach  
Hamed Hashemian, La Mesa  
Steven Beppler, Otay WD  
Bob Kennedy, Otay WD  
Allen Carlisle, Padre Dam MWD  
Karen Jassoy, Padre Dam MWD  
Kyle Swanson, Padre Dam MWD  
Angela Martinez, Poway  
Dan Brogadir, County of San Diego

John Stuffebean, City of San Diego  
Tom Rosales, City of San Diego  
Charlette Strong Williams, City of San Diego  
Charles Modica, City of San Diego  
Edgar Patino, City of San Diego  
Amer Barhoumi, City of San Diego  
Lubna Arikat, City of San Diego

Doug Owen, Stantec  
Christine Waters, CityWorks  
Sean McCarty, West Coast Civil

Thomas Falk, CDM Smith

Pete Wong, Member of the Public

Dexter Wilson, Wilson Engineering  
Carmen Kasner, NV5  
Scott Tulloch, NV5  
Karyn Keese, The Keze Group  
Lori Anne Peoples, MetroTAC

**1. Review and Approve MetroTAC Action Minutes for the Meeting of June 17, 2020**

**ACTION:** Motion by Eric Minicilli, seconded by Beth Gentry, the Minutes be approved.

Steve Beppler of Otay Water District requested clarification on the UV System at the South Bay Plant. Clarification accepted by the Maker and Second.

Motion carried unanimously.

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

MetroTAC Chair Roberto Yano stated there had been no meeting so there was nothing to report.

**3. REPORT: Update from Residuals Management Working Group**

John Stuffebean, Assistant Director PUD, City of San Diego and Allen Carlisle,

CEO/General Manager Padre Dam Municipal Water District provided an overview of the actions taken. The high level points were that the East County offload of approximately 15 mgd would count towards secondary equivalency, East County is guaranteeing 11 mgd and are responsible for penalties for ECAP non-performance; the City of San Diego will consider downsizing their capacity from 53 to 42 in their Pure Water program; ECAP will contractually commit to meeting the milestones set and the City of San Diego has the ability to review and comment on progress; provisions are provided for long term collaboration for residuals management program with the City of San Diego's desire to install regional brine line around Phase 1 and 2 with zero capital expense to the PA's and all of East county will pay their share; the City of San Diego will transfer the East Mission Gorge station to ECAP who will be responsible for maintenance and also the existing force main and will cost split the rehab of the line prior to taking it over; as a wet weather fail safe, the City of San Diego will continue to manage and agrees to fail safe facilitation between the City of San Diego and the East County to address any potential cost share needed to accommodate as a fail safe (Section 2.9 in Amended/Restated Agreement); East County has asked as going into the process, any cost share takes into consideration of avoided costs to the City of San Diego and PA's.

John Stufflebean stated the City of San Diego's objective is to keep the brine out of the regional plans and downsize the central plant.

Karyn Keese, The Keze Group, inquired as to which section in the Amended Restated Agreement would be referenced for the specific item. Allen Carlisle of Padre responded 2.9.1.2 and 2.9.1.4. Ms. Keese stated that the Phase I Financial Implementation work group will begin work on 2.9 and other financial requirement contained in Exhibit F now that the Agreement will be fully authorized. The work group's process will insure that all of the PAs interests will be addressed in the implementation.

Steve Beppler of Otay inquired as to how this would impact financially and otherwise the PA's. Dexter Wilson, Consultant stated that the agreement is to agree so that the specifics that effect the JPA can be worked out. One of the biggest impacts will be billing and the JPA would like to insure the East County agencies pay their fair share so the other PAs are not carrying the entire Pure Water financial load although The East County Agencies deserve some credit as they are giving up some ownership and discharge rights. Equality will need to be found in what they want and what they are giving up. Allen Carlisle of Padre stated they agreed.

Steve Beppler inquired as to the timeline of this agreement and the signing of the Amended/Restated Agreement.

Dexter stated his understanding was with this agreement finalized, Padre and the County of San Diego are willing to sign and both have the agreement in their process for approval and signature. Allen Carlisle of Padre stated they would sign in August and Dan Brogadir of the County confirmed stated they have it scheduled for approval and signature in September.

Karyn Keese, The Keze Group noted that the second phase of the Amended Restated Agreement should be quicker than the first. She and Dexter are working through the laundry list already and Dexter stated that now that the issues are defined, it should be quicker.

MetroTAC Chair Roberto Yano asked the members if they had any additional questions or concerns to contact him as soon as possible.

**4. REPORT: Update from Sample Rejection Protocol Working Group (Zoom Training Date) (Standing Item)**

Edgar Patino of City of San Diego stated he had only received one response and was shooting for August 13<sup>th</sup>, 2020 at 1:00 p.m. for a virtual training through Microsoft Team.

**5. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the FY 2018 Exhibit E Audit**

Charles Modica, Deputy Director, City of San Diego provided a quick overview of the Audited Financial Statement, commonly known as Exhibit E, for FY 2018. Karyn Keese, the Keze Group added additional information that the \$321 million was an increase of 14%.

Karyn Keese then noted that they had a running total of Metro Pure Water to date under Note 9 and were working on going back to the beginning of the Pure Water Program to include costs incurred in FY 2014 and FY 2015

Edgar Patino, City of San Diego stated that the refunds would be processed around August and invoices will also with a 60 day net. If there is a timing issue of paying for the year-end invoice, he requested the PA's contact him to work something out so that interest will not be accrued for late payments

Dexter Wilson thanked Charles Modica for adding Note 9 as it was proving extremely helpful.

Karyn Keese, The Keze Group stated that Note 9 had been there since FY 2016. She has asked PUD staff for the inclusion of all Pure Water Costs incurred to be included in Note 9 for the FY 2019 audit,

John Stufflebean, Assistant Director PUD, City of San Diego stated the City was concluding an audit of discharges and may have some significant changes coming forward.

Charles Modica, City of San Diego stated he was looking at the Amended/Restated Agreement and how individual wastewater costs are distributed, currently in the water fund, and will need to transfer over some, so he will bring forward in the future how the IBWC is funded.

Karen Jassoy reminded all that once the audit is approved, they will have the final percent for allocating the FY 2021 JPA budget to bring to the Finance Committee and then the JPA and they will then send out the bills.

Beth Gentry of Chula Vista asked if this would fall under a committee and Karyn Keese responded that it falls under section 2.9 so she and Dexter and PUD Financial staff will be reviewing and reporting out.

**6. Discussion: Consideration of Purchase of Virtual Meeting Platform Software: Zoom or Microsoft Teams**

MetroTAC Chair Yano stated he wanted to purchase a Virtual Meeting Platform Software as the TAC and JPA were currently using National City's. He wanted to see if any TAC members had a preference. Since no preference was noted, Secretary Peoples will purchase Zoom software.

**7. Metro Wastewater Update (Standing Item)**

Edgar Patino, City of San Diego stated he had nothing to add other than the IWCP Audit was on the way and they were expecting an update on the Pure Water litigation.

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

No report.

**9. Pure Water Program Update & East County (Residual Agreement) Update**

John Stufflebean, Assistant Director City of San Diego reported that the PLA still has a couple of items and needs to sign. They are preparing for bids the end of July.

**10. Pure Water Phase 2 Update**

Doug Owen, Stantec, provided a brief verbal overview of the PowerPoint Presentation sent out noting that he was working on the Phase II Update with MetroTAC representatives Roberto Yano, Dexter Wilson and Scott Tulloch. He also introduced others involved: Amer Barhoumi of the City of San Diego; Lubna Arikat; Victor Occiano of Brown & Caldwell; Christing Waters of CityWorks and Sean McCarty of West Coast Civil.

Karyn Keese of The Keze Group thanked Doug Owen, Stantec for the excellent presentation and inquired as to whether they had reached out and spoken with the Pt. Loma residential group as they were a tough group and they will need to get out in front. Mr. Owen stated that Scott Tulloch has brought this up as well and if the bay options were to cost more, this might be worth the additional premium versus going the residential route.

**11. Financial Update**

Karyn Keese, The Keze Group stated that the FY 2019 Audit was moving along and samples were currently being reviewed by MGO. The next step would be for she and Dexter to look at them. This task is proving a bit difficult with COVID restrictions.

**12. IRWMP Update**

Yazmin Arellano, City of El Cajon stated they Met June 3, 2020 and that they provided an update on State Covid 19 impacts including the 2020 Water Bond is expected to be delayed due to the public's uncertainty to approve; provided an update on Prop 1 – letters last May, 8 projects \$15.3 million to be approved July; update on the current funding ops – due Friday for Prop 68 and July 31 for the State Coastal Conservancy Prop 1.

**13. REPORT: Update on Plan B Working Group**

Working Group Chair Eric Minicilli, MetroTAC Vice Chair stated the group met a couple weeks ago and discussed what to do if the City of San Diego, Padre Dam Municipal Water District and San Diego County couldn't agree and sign the Agreement. They were going to set a meeting with John Stufflebean of San Diego to discuss but it sounded like they can table the item after today's update.

**14. MetroTAC Work Plan**

MetroTAC Chair Roberto Yano stated the report was attached to the agenda.

**15. Review of Items to be Brought Forward to the Regular Metro Commission/Metro Wastewater JPA Meeting on July 2, 2020**

MetroTAC Chair Roberto Yano stated that FY 18 Audit would go forward along with the Phase II Pure Water Presentation.

**16. Other Business of MetroTAC**

None.

**17. Adjournment to the Next Regular Meeting July 15 2020**

There being no further business, MetroTAC Chair Roberto Yano adjourned the meeting at 12:40 p.m.



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

and

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

**ACTION MINUTES**

**DATE OF MEETING:** August 19, 2020

**TIME:** 11:00 AM

**LOCATION:** Zoom Meeting held On Line

**MEETING ATTENDANCE - METROTAC:**

Roberto Yano, National City	John Stufflebean, City of San Diego
Beth Gentry, Chula Vista	Amy Dorman, City of San Diego
Frank Rivera, Chula Vista	Charlette Strong Williams, City of San Diego
Ed Walton, Coronado	Edgar Patino, City of San Diego
Joe Bride, Del Mar	Charles Modica, City of San Diego
Yazmin Arellano, El Cajon	Lubna Arikat, City of San Diego
Dennis Davies, El Cajon	
Eric Minicilli, Imperial Beach	Kyenee Kim, Unit Manager, San Diego
Hamed Hashemian, La Mesa	County Sanitation District
Mike James, Lemon Grove	
Steven Beppler, Otay WD	
Bob Kennedy, Otay WD	Doug Owen, Stantec
Allen Carlisle, Padre Dam MWD	
Mark Niemiec, Padre Dam MWD	Christine Waters, CityWorks
Kyle Swanson, Padre Dam MWD	Sean McCarty, West Coast Civil
Sevel San, Padre Dam MWD	Victor Occiano, Brown and Caldwell
Troy DePriest, Poway	
Eric Heidemann, Poway	Mandira Sudan, HDR
Angela Martinez, Poway	
Jessica Parks, Poway	Tengstrand
Dan Brogadir, County of San Diego	
	Laura Walsh
Nicholaus Norvell, BBK	
Dexter Wilson, Wilson Engineering	Sean McCarthy
Carmen Kasner, NV5	
Scott Tulloch, NV5	Mark Elliott
Karyn Keese, The Keze Group	
Lori Anne Peoples, MetroTAC	Pete Wong, Member of the Public

**MEETING ATTENDANCE - Metro Wastewater JPA/Metro Commission:**

**Agencies**

City of Chula Vista  
City of Coronado  
City of Del Mar

**Representatives**

Jill Galvez  
Whitney Benzian  
Sherryl Parks

**Alternate**

(No representative)  
Joe Bride

City of El Cajon	Gary Kendrick	
City of Imperial Beach	Ed Spriggs (left at 12:48 p.m.)	
City of La Mesa	Bill Baber	
Lemon Grove San District	Jerry Jones	
City of National City	Ron Morrison	
City of Poway	John Mullin	(No representative)
County of San Diego	Dianne Jacob	(No representative)
Otay Water District	Mark Robak	
Padre Dam MWD	Jim Peasley	

**1. WORKSHOP: Joint Workshop and Discussion with Metro JPA/Metro Commission Regarding Pure Water Phase 2 Alternatives**

MetroTAC Chair Yano called the MetroTAC meeting to order.

Metro Wastewater JPA/Metro Commission Chair Jones called the Metro Wastewater JPA/Metro Commission to order. He thanked the MetroTAC and City of San Diego staff for their hard work and great collaboration noting that this project is a significant move forward for our county involving environmental protection, water and infrastructure and expressed pleasure on behalf of the PA's for being included as an iatrical part of the decision making.

John Stufflebean introduced and turned the meeting over to Doug Owen of Stantec, the City of San Diego Project Consultant who in turn introduced the people working with him.

Mr. Owen then proceeded to provide a verbal overview of the PowerPoint presentation (included in the workshop agenda package).

**2. Adjournment of the MetroTAC to the Next Regular Meeting September 16, 2020**

There being no further business, MetroTAC Chair Roberto Yano adjourned the meeting at 1:04 p.m.

**3. Adjournment of the Metro Commission/Metro Wastewater JPA/ to the Next Regular Meeting September 3, 2020**

There being no further business, Metro Commission/Metro Wastewater JPA Chair Jones adjourned the meeting at 1:04 p.m.

# ATTACHMENT 5

## PUMP STATION 2

### POWER RELIABILITY &

### SURGE PROTECTION

**METRO JPA/TAC**  
**Staff Report**  
**Date: 8/19/2020**

**Project Title:** Pump Station 2 Power Reliability & Surge Protection

**Requested Action:**

Approval to extend both Design Consultant (Lee & Ro) and Construction Management Consultant (Black & Veatch) contracts and the increase of the previously approved budget by \$3,500,000.

**Recommendations:** Approve the requested actions

Metro TAC:	Present to Metro JPA/TAC for approval scope/budget
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	Original Consultant Design contract with Lee and Ro was approved by Metro TAC in October 2011. First Amendment to Consultant Design contract with Lee and Ro was approved by Metro TAC in November 2014. Construction contract with Steve P. Rados and the increase of the previously approved budget by \$29,200,000 was approved by Metro TAC in March 2017.

**Fiscal Impact:**

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	100% Metro
Fiscal impact to the Metro JPA:	33.5% of \$3,500,000 = \$1,172,500

**Capital Improvement Program:**

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

**Previous TAC/JPA Action:**

Original Consultant Design contract with Lee and Ro was approved by Metro TAC in October 2011. First Amendment to agreement with Lee and Ro was approved by Metro TAC in November 2014. Construction contract with Steve P. Rados and the increase of the previously approved budget by \$29,200,000 was approved by Metro TAC in March 2017.

**Additional/Future Action:**

Will present project to Metro JPA on August 19, 2020, City council Infrastructure Committee in September 16, 2020, and then to City Council in October 6, 2020, for approval to extend the contracts with Black & Veatch and Lee & Ro.

**City Council Action:**

On May 30, 2012, the City entered into an agreement (Resolution No. R-307458) with Lee and Ro Inc. in the amount of \$1,750,000 to evaluate alternatives of backup power recommendations for the City's review and provide design services for the City's preferred alternative.

On April 21, 2015, the City amended the Agreement (Ordinance No. OO-20477) to extend Lee and Ro Inc. contract duration through April 20, 2020 and increased the contract amount by \$350,000.00 to provide design services for additional scope items.

On July 19, 2017, the City Council approved phase funded contracts (Resolution No. R-311218) for Steve P. Rados, Inc. for construction of PS2 project in an amount not to exceed

\$56,228,000.00, and for Black & Veatch Corporation for construction management services in an amount not to exceed \$3,749,869.00.

On April 18, 2018, the City amended the Agreement (Ordinance No. OO-20910) to extend Lee and Ro contract duration through August 20, 2022 and increased the contract amount by \$2,250,000.00 to provide construction support services.

**Background:**

PS 2 is located on North Harbor Drive near the San Diego International Airport, and collects all sewage generated by the City of San Diego populations along with other participating agencies within the County of San Diego. The existing sewer pump station has six (6) pumps driven by electrical power and two (2) pumps driven by natural gas engines with a total capacity of 432 million gallons per day. This essential facility must continue to operate 24 hours per day and 7 days per week without disruption during construction, and also provide for mitigation of risks of hazards, e.g., spills, and surge protection. This requires minimal work during the rainy season.

The purpose of this PS2 Power Reliability & Surge Protection Project is to meet current U.S. Environmental Protection Agency (EPA) guidelines requiring the station to be equipped with independent backup power sources through installation of on-site backup power generators. The backup power generators will also provide surge protection to prevent a water hammer effect that could damage the force main pipes during a power outage event. The project scope consists of construction of four (4) new large emergency power backup generators, a new power generator building and new covered backup fuel storage area, replacement of the two (2) pumps driven by natural gas engines, mechanical, electrical, instrumentation and control systems, and all site restoration necessary for a complete and functional facility. The project also includes improvements to the existing building which include conversion of space to additional offices and required American with Disabilities Act (ADA) upgrades. The construction phase began in August 2017 and is estimated to be operational by December 2023.

**Sub-item 1:**

On July 19, 2017, the City awarded an Agreement (R-311218) to Black & Veatch Corporation, Inc. to provide construction management services for the PS2 for an amount not to exceed \$3,749,869.00 for a duration of 5 years. The services provided by Black & Veatch Corporation include oversight and overall management of the construction contract, including quality assurance and specialty inspections, operational and functional testing of large complex equipment (power backup generators), and start up and final commissioning of the facility.

The construction of the project began on August 8, 2017 with a contract duration of 48 months (1,460 calendar days) scheduled to complete in August 2021. The project is approaching the 60% completion and is now expected to be in operation by November 2022 with the completion of all post construction requirements by July 2023.

During construction, the Contractor has had various challenges that have delayed the schedule, such as, accurately performing modeling, layout and installation of the generator building underground equipment, and also receiving and installing the structural steel for the generator building roof. These delays also impacted the schedule for the pump replacement work which is restricted to replacing one pump during the dry season of each year, as all eight wastewater pumps for this pump station are required to be in operation during the rainy season (October through May). The first pump replacement was originally scheduled for dry season of 2020 (June - September), and the second pump 2021. It is expected that the Contractor will now perform the work for the first pump replacement in the dry season of 2021, and the second pump replacement in 2022. City staff has issued notices to the Contractor notifying them of the delays in schedule, and that the City reserves the right to assess liquidated damages.

As a result of the challenges described, and the potential of further unforeseen challenges on a project of this complexity, it is necessary to extend the contract an additional 24 months (2

years) from July 19, 2022 to July 19, 2024 and add additional funding to Black and Veatch Corporation's contract via Amendment No.1. This Amendment No. 1 is for an amount not to exceed \$2,500,000.00 to cover an additional 24 months. It will cover the essential support and uninterrupted Construction Management Services throughout the remainder of the construction phase, including startup and commissioning, coordination with Operations and Maintenance staff, resolution of any claims, and final closeout and acceptance.

**Sub-item 2:**

On May 30, 2012, the City awarded an Agreement (RR-307458) to Lee and Ro, Inc., in the amount of \$1,750,000 for professional design and construction support services. The scope of work was to evaluate the most feasible alternatives for a new reliable backup power system according to EPA guidelines for independent backup power meeting all current safety and operation standards and to develop construction plans and specifications for the most feasible backup power alternative.

On April 21, 2015, the City authorized the First Contract Amendment with Lee and Ro, Inc. to extend the contract duration through April 2020 and to increase the contract amount by \$350,000 for additional design scope changes. The scope of work consisted of improvements to the existing switchgear building not included in the original scope which included conversion of space to additional offices, and ADA upgrades. The scope also included increasing the size of backup power generators, relocating fiber optics conduits in conflict with the new power generator building, upgrading the existing heat exchangers, and adding new electrical equipment, (480 Volt Automatic Transfer switch). Revised design plans and construction specifications were completed in August 2016 and provided for the construction of the project.

On April 18, 2018, the City authorized the Second Contract Amendment with Lee and Ro, Inc. to extend the contract duration through August 2022 and to increase the contract amount by \$2,250,000 for construction support services that were not part of the original agreement and first contract amendment.

Due to delays in construction, a Third Contract Amendment with Lee and Ro, Inc. is necessary to extend the contract by 30 months from August 20, 2022 to February 20, 2025 and increase the contract amount by \$975,000.

The scope of professional services included in the Third Contract Amendment will provide for the additional construction support required for the full duration of the construction contract, which includes additional site meetings, coordination with City staff, contractor, and utility companies. It also includes additional review of submittals, RFI's (Requests for Information), unforeseen conditions, equipment testing, and facility operational and startup support and project close out.

	Previously Approved Budget	Revised Budget
Engineering and Contract Administration	\$2,500,000.00	\$5,000,000.00
Consultant Contract (Lee & Ro)	\$4,350,000.00	\$5,325,000.00
CM Contract (Black & Veatch)	\$3,750,000.00	\$6,250,000.00
Construction Contract (Steve P. Rados)	\$56,228,000.00	\$56,340,611.00
Contingency	\$5,272,800.00	\$2,685,189.00

Total project cost	\$72,100,800.00	\$75,600,800.00
<b>Discussion:</b> Due to the critical need of this facility to continue to operate 24 hours per day/7 days per week, and to ensure the power reliability and surge protection, it is recommended to move forward with this project.		
<b>Bid Results:</b> 3 bids received Bid open date on 12/6/16. (Design-Bid-Build delivery method) 1 – Rados - \$56,228,000 2 – Kiewit - \$57,329,650 3 – Archer west - \$64,306,000 (disqualified)		

# Engineering & Capital Projects

## Pump Station 2 Power Reliability and Surge Protection



# Requested Action

*Approval to amend both design and construction management consultants contracts and the increase of the previously approved budget by \$3,500,000.*

*Therefore Total Fiscal Impact to Metro JPA is:*

*33.5% of \$3.5 Million = \$1,172,500*

# Existing Facility





# Existing Facility Background

## Pump Station 2

- Owned/operated by the City of San Diego
- Critical Facility/Main Sewer Pump station for Region
- Pumps all Wastewater to the Point Loma Wastewater Treatment Plant

## Existing Facility:

- Dual 87" Force mains
- 160 MGD Average Daily flow/432 MGD Maximum Capacity
- 8 pumps
  - 6 driven by 2,250 HP Electric motors
  - 2 driven by 2,400 HP Natural gas engines
- All 8 pumps must be available during rainy season

- **Needs**
  - Backup power
  - Surge Protection
  - Upgrade Electrical Motors
  - Relocation of staff from trailers to existing building
- **Triggers**
  - ADA upgrades for office spaces
  - Upgrades to existing Natural Gas Lines
  - Relocation of fiber optic lines
  - Fire Protection System upgrades
  - Noise Ordinances/EPA Exhaust Ordinances
  - Instrumentation & Controls systems upgrades
  - Electrical System upgrades



Area 7  
New Power  
Generation Building

Area 4 HEX  
Area 7 Fuel  
Storage Canopy

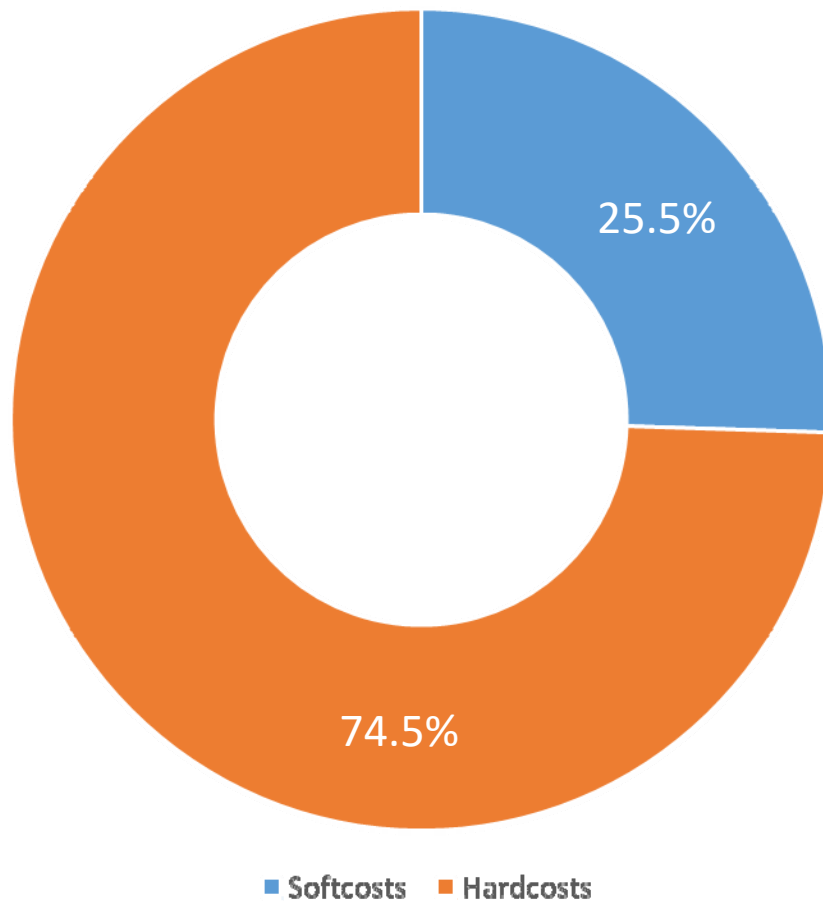


- Previous Approval 4/28/2017 for total project cost \$72.2M
- Additional funds to extend both design consultant and construction management consultant contracts to account for incurred construction delays
- Current Total Project Cost \$75.7M



# Final Scope Cost Breakdown

Budget Breakdown



Total Cost is \$75.7M

- Design & Administration 25.5%
  - Includes Design Consultant
  - Construction Manager Team
  - City Staff Charges
- Construction 74.5%
  - Includes Field Orders

- Construction Schedule:

- **LNTP** - May 17, 2017
- **Original Construction Completion** - August 2021 (Construction Duration 48 Months)
- **New Construction Completion** due to construction delays – December 2022

- Construction Activities Related to Delay:

- Underground Work for New Generator building
  - Shoring and Dewatering, and Excavation
  - Electrical utilities and conduits
- Building Equipment
  - Switchgear
  - Power Generators(Natural Gas & Diesel)
- Concrete work for the new generator building
  - Exterior/Interior Concrete Walls
- Installation of Structural Steel
  - Roof and Generator rooms for new Generator building



Shoring and Dewatering – 4/2/2018



Underslab Conduit in Electrical Room-9 – 10/31/2018



Installation of Switchgear 3 – 09/04/2019



Underslab Conduit in Electrical Room-8 – 10/05/2018



New Building Wall form – South side 4/3/19



New building Wall pour – north side 8/5/19



Rebar Work at Fuel Tank Containment Area  
– 09/26/2019



Mezzanine Steel – 01/31/2020



Generator Rooms Roof Rebar – 04/23/2020



Installation of Control and Signal Conduit Rough-Ins  
– 06/18/2020



# Requested Action

*Approval to amend both design and construction management consultants' contracts and the increase of the previously approved budget by \$3,000,000.*

*Therefore Total Fiscal Impact to Metro JPA is:*

*33.5% of \$3.5 Million = \$1,172,500*



# End

# ATTACHMENT 6

AMDT TO SERVICE  
CONTRACT WITH  
AMERICAN PROCESS  
GROUP, INC

PT. LOMA DIGESTERS  
C1 & C2 & METRO  
BIOSOLIDS CENTER  
HOLDING TANK 17  
CLEANING

**METRO JPA/TAC****Staff Report****Date: 9/16/20**

**Project Title:** Point Loma Wastewater Treatment Plant (PLWTP) Digesters C1 and C2 and Metro Biosolids Center (MBC) Holding Tank 17 Cleaning

**Presenter(s) Name:** Tom Rosales

**Presenter(s) Title:** Interim Assistant Director

**Requested Action:** 1472 - First Amendment to provide Point Loma Wastewater Treatment Plant (PLWTP) Digesters C1 and C2 and Metro Biosolids Center (MBC) Holding Tank 17 Cleaning

**Recommendations:** Approve the first amendment to service contract bid 10089637-20-W agreement with American Process Group, Inc. (APG) for the addition of MBC Holding Tank 2 and the increase of the contract amount for a not-to-exceed amount of \$4,500,000.

Metro TAC:

IROC:

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

N/A

**Fiscal Impact:**

Is this projected budgeted? Yes ☒ No ☐

Cost breakdown between  
Metro & Muni: \$4,500,000 (Metro)

Fiscal impact to the Metro  
JPA: \$1,507,500 (33.5% Metro JPA)

**Capital Improvement Program:**

New Project? Yes ☐ No ☒ (Maintenance) N/A ☐

Existing Project? Yes ☒ No ☐ Upgrade/addition ☐ Change ☐

**Previous TAC/JPA Action:** N/A

**Additional/Future Action:** Digesters at Point Loma Wastewater Treatment Facility and Holding Tanks at Metro Biosolids Center require to be cleaned every 5 to 8 years to remove accumulated solids (sludge)

**City Council Action:** Council action is required since this Service Contract is exceeding \$3 million and it will be presented to City Council on November 17, 2020

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

The Point Loma Digesters C1, C2 and Metro Biosolids Center Holding Tank 17 and Holding Tank 2 have seen their capacity increased over many years of continuous operation due to accumulated solids inside each tank that cannot be removed under normal, routine operations. This is a common dilemma faced by all wastewater facilities that operate digesters. In order to restore full operating capacity, each tank must be thoroughly taken out of service and cleaned for a period of time in order to improve overall digester operational efficiency, improve the

mixing of the sludge, increase the working volume and reduce energy costs.

In developing the scope of work for the contract bid, City staff calculated the volume of solids/sludge that would be needed to be removed from the MBC Holding Tank 17 under the service contract. The estimated volume of 65,000 gallons was derived from several operational factors and that amount was identified in the contract bid documents. During the subsequent field verification by APG after the award of contract, the estimated volume was revised to 385,015 gallons (an increase of 320,015 gallons). City staff negotiated a reduced unit cost for the additional cleaning by APG and secured that agreed upon cost in a proposal letter.

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

This request is for the addition of MBC Holding Tank 2 which was not anticipated reaching its capacity during the original bid, and the increase in volume of solids at Holding Tank 17. This action will increase the contract amount for a not-to-exceed amount of \$4,500,000.

The initial approved funding to complete this project was \$3,000,000, meant to cover the cleaning and contingency for the Point Loma Wastewater Treatment Plant (PLWTP) Digesters C1 and C2 and Metro Biosolids Center (MBC) Holding Tank 17. With the addition of the MBC Holding Tank 2 and the increase in the volume in MBC Holding Tank 17, the First Amendment is being requested to increase the funded amount to \$4,500,000, an increase of \$1,500,000 over the initial approved funding, to cover the unanticipated extra solids volume in MBC Holding Tank 17, adding MBC Holding Tank 2 to the scope of work, and anticipating the need for unforeseen conditions for the yet uncompleted work at the Point Loma WWTP. The PLWTP Digester Cleaning portion of the project started on September 8, 2020.

**Bid Results:** Bid opening was held on February 21, 2020, and there were three bids: 1) American Process Group Inc. at \$2,571,958, and 2) MP Environmental Services Inc. at \$2,871,650, and 3) Synagro at \$3,260,332. American Process Group Inc. was selected as the lowest responsive bidder at \$2,571,958.

# ATTACHMENT 16

METROTAC

WORK PLAN

**Metro TAC & JPA Work Plan**  
**Active & Pending Items**  
**April 2020**  
*Updated Items in Red Italics*

Active Items	Description	Member(s)
<i>Strategic Plan Ad Hoc</i>	The JPA last updated their strategic plan in 2015. The Ad Hoc was formed to determine should there be a 2019 strategic plan update and if so what format it should follow. First meeting held June 2019. Two work sessions to be held in August are planned with the goal of presenting a draft 2019 Strategic Plan to the JPA in October 2019. <i>4/20: Strategic Plan update is complete and can be found on JPA website.</i>	<i>Whitney Benzian Jerry Jones Gary Kendrick John Mullin Ed Spriggs JPA staff</i>
<i>SB 332 Working Group</i>	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 Beth Gentry Hamed Hashemian</i>
Muni Transportation Rate Study Working Group	San Diego has hired Carollo Engineers to review the existing transportation rate structure. A work group has been formed to review and give input. First meeting will be in December 2017. Although this is a muni issue it is included on the work plan due to its significance and potential effect on all Metro TAC members. 3/18: Technical consultants to meet with PUD staff and Carollo on 3/22/18 to review model in detail 6/18: JPA technical consultants continue to work with PUD staff on understanding rate calculations 1/19: Working group still meeting with PUD staff & consultants. 6/19: Working Group has presented an alternative plan in November 2018 which the City and their consultants are 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. 10/17: Group has met several times. Discussions are ongoing. 3/18: Group continues to meet at least monthly. 6/18: Group continues to meet monthly. Outreach subgroup formed. 1/19: This group continues to meet as needed.	Jerry Jones Jim Peasley Ed Spriggs Bill Baber Steve Padilla Metro TAC staff & JPA consultants
Phase II Pure Water Facilities Working Group	Created to work with SD staff & consultants on determining Phase II facilities. 1/19: Work group has eliminated two alternatives and continues to review updated facilities and their costs. Presentation to Metro TAC by Stantec re: Phase 2 Flows and Loads. Copy attached to Metro TAC minutes. 6/19: Phase II alternative presented to Metro TAC in May and JPA in June 2019. Copy of presentation can be found in minutes to those meetings. Alternatives narrowed to two main alternatives. <i>4/20: JPA representatives still meeting w/SD staff and consultants. Alternatives have been narrowed to two.</i>	Roberto Yano Seval Sen Scott Tulloch Dexter Wilson SD staff & consultants

**Metro TAC & JPA Work Plan**  
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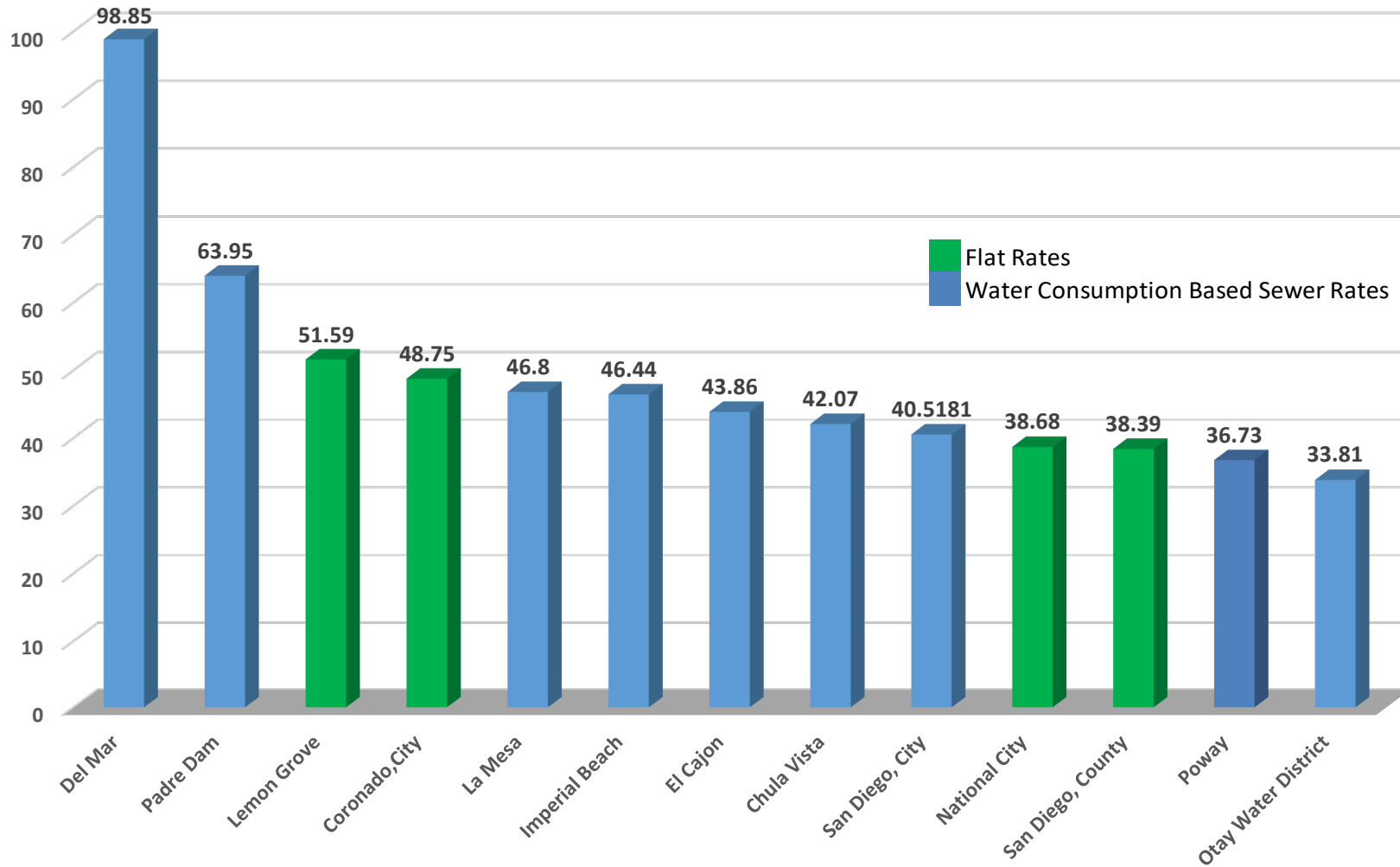
Active Items	Description	Member(s)
Residuals Management Working Group	This working group was formed to continue work on Sections 2.9.2 and 2.9.3 of the Amended and Restated Agreement regarding the potential transfer of the East Mission Gorge Pumps Station and the disposal, treatment, or transfer of residuals. 1/19: Group continues to meet. 3/19: Working Group has been meeting w/Padre Dam, Coronado, & Otay. 6/19: Draft agreement has been prepared and is being reviewed/refined. <i>4/20: Draft Agreement is in final stages and will hopefully be completed in June/July.</i>	Eric Minicilli Yazmin Arellano Dan Brogadir Seval Sen 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 associated with the Amended Restated Agreement. 1/19: Working group had formation meeting. Has prepared draft task list and task assignments for group members and SD staff. Will meet at least monthly until tasks are complete. Ownership of EMGPS determined. Appraisal in complete. 6/19: Group will start meeting in July 2019 on a regular basis.	Roberto Yano Karyn Keese Dexter Wilson SD staff & consultants
Phase II Disposal Agreement Working Group	This group replaces the Debt Allocation Working Group with the approval of the Amended and Restated Agreement for Phase 1. 1/19: Group will start meeting in February.	Roberto Yano Karyn Keese Scott Tulloch Dexter Wilson SD staff & consultants
Pretreatment Working Group	Formed to work with San Diego on new standards for industrial waste discharge. 1/19: SD has received draft report from consultant but has sent back for revisions. Second draft will be reviewed by working group. 6/19: Working group has met and reviewed draft of report. Presentation made by Stantec of recommendations to Metro TAC. Copy attached to June agenda.	Yazmin Arellano Mark Niemiec Ed Walton Beth Gentry Dexter Wilson SD Staff & Consultants
JPA Website Update Working Group	The JPA Website, especially the New Director Manual, has not been updated for several years. As we have several new Directors, the manual needs to be updated. 1/19: Working group formed. First meeting 2/20/19. 6/19: Group continues to meet and work on updating website. Goal is to totally revise New Director's Manual by end of October once Strategic plan is completed.	Roberto Yano Karyn Keese Lori Peoples Susan Spotts
Exhibit E Audit	1/19: FYE 2017 fieldwork complete. 3/19: FYE 2018 entrance conference complete. Sample selection complete. 6/19: FY 2018 fieldwork completed week of June 17, 2019. <i>4/20: FY 2018 audit/reconciliation should be complete in July. FY 2019 sample selection is complete.</i>	Karen Jassoy Karyn Keese Dexter Wilson
IRWMP	Members should monitor funding opportunities at: <a href="http://www.sdirwmp.org">http://www.sdirwmp.org</a> 1/19: PA representatives continue to report monthly at Metro TAC 3/19: Minutes from 3/20/19 Meeting attached to work plan. 6/19: Metro TAC given monthly updates. See Metro TAC minutes for updates.	Yazmin Arellano Beth Gentry



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Strength Based Billing Evaluation	San Diego will hire a consultant every three years to audit the Metro metered system to insure against billing errors. 1/19: 2019 is the year for the billing review. Scope to be discussed at Financial Implementation Work Group and then brought to TAC. This group combined w/ Sample Rejection Protocol Working Group. SBB workshop by SD staff still outstanding. 3/20: JH will provide training schedule for SBB at April TAC meeting. <i>4/20: Presentation is complete. Since it is 2 hrs. in length PUD will wait to present when meetings can be resumed.</i>	Dan Brogadir Dennis Davies? Karyn Keese Mark Niemiec Dexter Wilson SD Staff
Changes in water legislation	Metro TAC and the Board should monitor and report on proposed and new legislation or changes in existing legislation that impact wastewater conveyance, treatment, and disposal, including recycled water issues	Inactive; Members added as needed

**Sewer Rate Comparison for Metro Participating Agencies**  
**Single Family Monthly Rates Based on 7 HCF of Water Usage**  
**Effective January 1, 2020 for FY 2020**



# 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		
La Mesa	Hamed Hashemian		
Poway	Mike Obermiller Rudy Guzman		
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		
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