City of Rialto
Water Subcommittee Meeting

Council Chambers
150 S. Palm Ave.
Rialto, CA 92376

Regular Meeting - Final

Thursday, July 24, 2025

CLOSED SESSION TIME: 10:00 A.M.
OPEN SESSION TIME: 10:30 A.M.

Rialto City Hall, Council Chambers, 150 S. Palm Ave. Rialto CA 92376

Water Subcommittee

Mayor Joe Baca
Mayor Pro Tem Ed Scott

The City Council creates Subcommittees as needed to accomplish the work of the Council. Subcommittees are categorized as either, Standing or Ad Hoc. Subcommittees do not replace the work or decision-making process of the City Council as a whole and are used to provide feedback to staff. Subcommittees enable City staff to obtain early feedback from representative members of the City Council on issues affecting public policy prior to their presentation, as necessary, to the full City Council.

Any discussion or feedback expressed or received at a Subcommittee meeting should not be construed or understood to be a decision by or for the City Council. Further, any feedback the Subcommittee may make to the City Council is based on information possessed by the Subcommittee at the time the feedback is made and may be revised or amended upon receipt by the Subcommittee of additional or newer information.

HOW TO REVIEW THE AGENDA. ALL AGENDAS ARE POSTED IN THE CITY HALL ADMINISTRATION BUILDING (150 SOUTH PALM AVENUE, RIALTO) AT LEAST 72 HOURS IN ADVANCE OF THE MEETING. ALL WRITINGS THAT RELATE TO AN OPEN SESSION AGENDA ITEM AT A REGULAR SUBCOMMITTEE MEETING DISTRIBUTED TO ALL OF THE SUBCOMMITTEE WILL BE MADE AVAILABLE AT THE SAME TIME BUT AT LEAST 72 HOURS BEFORE A REGULAR MEETING, FOR PUBLIC INSPECTION ON THE CITY'S WEBSITE AT www.rialtoca.gov AND IN THE OFFICE OF THE CITY CLERK LOCATED AT 290 WEST RIALTO AVENUE, RIALTO, CALIFORNIA (909-820-2519) FROM 7:00 A.M. TO 6:00 P.M., MONDAY THROUGH THURSDAY. ANY PERSON HAVING A QUESTION CONCERNING ANY AGENDA ITEM MAY CALL ADMINISTRATION/UTILITIES DIVISION AT (909-820-2689) TO MAKE INQUIRY CONCERNING THE NATURE OF THE ITEM DESCRIBED ON THE AGENDA.

ITEMS ADDED TO THE AGENDA. CONSISTENT WITH THE RALPH M. BROWN ACT, ADDITIONAL ITEMS MAY BE ADDED TO THE AGENDA AND ACTED UPON BY THE SUBCOMMITTEE ONLY IF IT IS CONSIDERED TO BE A "SUBSEQUENT NEED" OR "EMERGENCY" ITEM AND IS ADDED BY A MAJORITY VOTE. MATTERS RAISED UNDER ORAL COMMUNICATIONS MAY NOT BE ACTED UPON AT THAT MEETING OTHER THAN AS PROVIDED ABOVE.

NEED ADA ASSISTANCE? IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, IF YOU NEED SPECIAL ASSISTANCE TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE PUBLIC WORKS DIRECTOR AT (909) 421-7279. NOTIFICATION 48 HOURS PRIOR TO THE MEETING WILL ENABLE THE CITY TO MAKE REASONABLE ARRANGEMENTS TO ENSURE ACCESSIBILITY TO THIS MEETING (28 CAR 35.102-35.104 ADA Title II).

HOW TO ATTEND THE MEETING.
(1) Members of the public may attend the meeting in person.

HOW TO MAKE A PUBLIC COMMENT.
(1) Appear at the meeting and speak during the public comment period. There is a 5-minute time limit.
(2) You may submit a public comment in writing to the Rialto Utility Authority by email at ASKRUA@RIALTOCA.GOV.

CALL TO ORDER

ROLL CALL

CLOSED SESSION:

REPORTS/DISCUSSION ITEMS

WS-25-0494 **CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION**

Pursuant to Government Code section 54956.9(d)(2) Significant Exposure to Litigation Number of Matters: one (1)

OPEN SESSION:

CALL TO ORDER

ROLL CALL

CITY ATTORNEY'S REPORT ON CLOSED SESSION

PUBLIC COMMENTS

APPROVAL OF MINUTES

WS-25-0478 Minutes from the June 23, 2025 Meeting

Attachments: Minutes of the 06 23 2025 Water Subcommittee meeting

PRESENTATIONS

REPORTS/DISCUSSION ITEMS

WS-25-0479 Update on the Rialto Biosolids Handling Upgrades Project at the Wastewater Treatment Plant.

Attachments: Rialto Biosolids Project Assessment_TM_20250718

WS-25-0499 Staff request that the Water Subcommittee provide feedback on the proposed Water and Wastewater/Sewer Rate Study Schedule.
(ACTION)

WS-25-0502 Staff Request that the Water Subcommittee Provide Feedback on a Contract Amendment with Soto Resources in the Amount of $62,100 for the Preparation of the Cal OES Hazard Mitigation Grant Program (HMGP).
(ACTION)

Attachments: Soto Resources_RUA Cal OES Subapplication Proposal

UTILITY DIRECTOR

WS-25-0483

Utilities Director Update:

1. Future Extraterritorial Agreements:
   a. 19010 Valley Blvd., Bloomington, CA - Single Family Residence
   b. 9330 S. Linden Ave., Bloomington, CA - Single Family Residence
   c. 10701 Cedar Ave., Bloomington, CA - Mobile Home Park

2. Update on Electric Rate Savings Analysis.

3. Update on Total Maximum Daily Limit (TMDL) Water Sampling at the Rialto Wastewater Treatment Plant.

4. Veolia's Monthly Operations Reports (MOR): July 2025 (reporting period May 2025)

Attachments: Veolia/RWS Monthly Operation Report_Reporting Period_May 2025_JULY REPORT

UPCOMING MEETING

ADJOURNMENT

City of Rialto

Legislation Text

File #: WS-25-0494, **Version:** 1, **Agenda #:**

For Water Subcommittee Meeting July 24, 2025

TO: Water Subcommittee Members

APPROVAL: John Rossi, Interim Utilities Director

CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION
Pursuant to Government Code section 54956.9(d)(2) Significant Exposure to Litigation Number of Matters: one (1)

City of Rialto

Legislation Text

File #: WS-25-0478, **Version:** 1, **Agenda #:**

For Water Subcommittee Meeting July 24, 2025

TO: Water Subcommittee Members

APPROVAL: John Rossi, Interim Utilities Director

FROM: Nicole Hemmans, Senior Administrative Analyst

Minutes from the June 23, 2025 Meeting

CITY OF RIALTO
SPECIAL MEETING OF THE WATER SUBCOMMITTEE
June 23, 2025 - 2:00 P.M.
MINUTES

The Special meeting of the Water Subcommittee of the City of Rialto was held in the Civic Center Council Chambers located at 150 S. Palm Avenue, Rialto, California 92376, on Monday, June 23, 2025.

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CALL TO ORDER

Call to order at 2:01 P.M.

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ROLL CALL

Senior Administrative Analyst Nicole Hemmans took the roll call.

Subcommittee Members / City Staff:
Mayor Joe Baca
Mayor Pro Tem Ed Scott
Tanya Williams, City Manager
Robert Khuu, Assistant City Attorney
John Rossi, Interim Utilities Director
Dr. Toyasha Sebbag, Assistant to the City Manager
Nicole Hemmans, Senior Administrative Analyst

Additional Attendees:
Stephen Dopudja, Dopudja & Wells Consulting, Inc.
Peter Luchetti, RWS/Table Rock
Megan Matson, RWS/Table Rock
Evan Kopinski, Ullico
Soheil Sadighi, RWS/Veolia
Marlon Brosco, RWS/Veolia

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PUBLIC COMMENTS

Public comment received on June 23, 2025:

- None.

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APPROVAL OF MINUTES

Mayor Baca asked if there were any comments pertaining to the minutes.

- None.

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NEW BUSINESS ITEMS

WS-25-0429 – Request for Feedback on the Rialto Biosolids Handling Upgrade at the Wastewater Treatment Plant.
(ACTION)

Staff requested for Feedback on the Rialto Biosolids Handling Upgrade at the Wastewater Treatment Plant. (ACTION)

Questions & Comments

- Mr. Luchetti and Ms. Matson with RWS/Table Rock requested to distribute a PowerPoint presentation update of the Biosolids project.
    - Staff asked if they could share the PowerPoint as it was not in the packet. It had been received after the packet was posted.
    - The Water Subcommittee agreed that the document could be shared at the meeting.
- Mayor Baca asked Mr. Luchetti to clarify what the difference is between revenue and expense.
    - Mr. Luchetti explained that the utility operates at an annual operating deficit of $1.5 million, which is currently being covered by reserve funds.
- Mayor Pro Tem Scott asked whether the $2 million payment was included in the total.
    - Mr. Luchetti confirmed that the $2 million payment is not included.
- Major Pro Tem Scott inquired whether the $10 million shown as going into reserves had been confirmed with the City's Finance Department.
    - Mr. Rossi indicated that he has not yet confirmed the amount with the Finance Department; however, the Treasury report reflects $16 million in RUA reserves. Staff will follow up to confirm.
- Mayor Pro Tem asked whether the report under review had been shared with the City's Finance Department for their input.
    - Mr. Rossi explained that the document was just received within the past hour and will be forwarded to the Finance Department following the meeting.

- Mr. Rossi confirmed that the original 5-year Capital Improvement Plan (CIP) included additional projects, but the scope was reduced to prioritize funding for three key projects: the Biosolids Project, the Sycamore Trunk Line, and a minor paving project.

- Mayor Baca asked Mr. Luchetti to specify which reserve the $10 million referenced in the report is coming from.

    - Mr. Luchetti advised that the $10 million is allocated from the City's wastewater reserves account, which currently holds a balance of $16 million.

- City Manager, Tanya Williams, inquired whether a proposed rate has been established to cover this cost.

    - Mr. Luchetti advised that the report he provided outlines the total operating expenses (OPEX) required. The preliminary estimate indicates an overall increase of approximately 22–25% over the next five years. Mr. Luchetti noted that the new rates consultant will verify the accuracy of the model presented.

- Mayor Pro Tem requested a detailed breakdown of the 25.7% allocated to soft costs, noting that the amount appears unusually high.

    - Mr. Luchetti provided a summary of the cost with a detailed breakdown.

    - Mayor Pro Tem requested a more detailed breakdown of the soft costs. He noted that while it is not needed today, it will be required for the upcoming internal meeting. He also requested that the soft Cost breakdown be shared with the City's finance team to ensure their involvement.

- Mayor Pro Tem expressed concern that, despite the $30 million returned to RUA, there remains insufficient funding to support the projects.

- Mayor Pro Tem inquired about the increase in Veolia's labor costs since the start of the Concession Agreement, seeking to compare them with the City's labor costs.

- Mr. Dopudja advised that he will review the labor component of the report and provide the updated information to the Water Subcommittee.

- CM Williams asked what the unused/approved credit amount of $1,835,293 represents for the Biosolids Project?

- Mr. Soheil confirmed that it represents the available funds for the FCWA that was approved by Council on 5/26/22 for Digesters 1 & 2 at the wastewater treatment plant.

- CM Williams asked whether the funds have been allocated and where they are being accounted for.

  - Mr. Luchetti advised that the question should be directed to the City Finance Department.

- Mayor Pro Tem asked who is handling RUA's finances within the City's finance department.

  - Mr. Luchetti noted that throughout the duration of the concession agreement, RUA has not had a dedicated financial expert to oversee and track its finances over time. He suggested the importance of appointing such an expert.

  - Mayor Pro Tem advised that he pays the Finance department to manage the financial records.

  - Mr. Dopudja confirmed that the City's finance department handles the finances.

  - Mr. Rossi advised that he has been coordinating with finance to verify what they have recorded in their books.

- Mayor Baca advised Mr. Luchetti that the report he shared should include detailed information regarding the unused/approved credit amount of $1,835,293, including the Council approval date and the amount accumulated.

- Mr. Rossi asked why the Digesters 1 & 2 project was never completed?

  - Mr. Sadighi advised that the Digesters 1 and 2 project was originally part of the microgrid project, which ultimately did not proceed.

- Mayor Baca requested that the minutes be provided to him earlier to allow sufficient time to review the requested tasks well in advance of the monthly meeting.

- Mayor Pro Tem requested the date by which Jacobs Engineering Group (Jacobs) will provide a report of their findings.

  - Mr. Rossi advised that Jacobs is scheduled to have the report available to the City by mid-July.

- Mayor Pro Tem requested for RUA, RWS, and Jacobs meet and come to an agreement on all issues prior to returning to the Water Subcommittee.

- Mayor Pro Tem inquired about the anticipated start date for the rate consultant

    - Mr. Rossi confirmed that the rate consultant has already started.

Mayor Pro Tem stated that he has been requesting information about RUA's funds for years and emphasized that the balances of all accounts should be known at all times.

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WS-25-0430 – Request for Feedback Regarding Posting a Notice Inviting Bids for the Sycamore Lift Station to Baseline Road, with an engineer's estimated cost of $5.52 million.
(ACTION)

Staff requested Feedback Regarding Posting a Notice Inviting Bids for the Sycamore Lift Station to Baseline Road, with an engineer's estimated cost of $5.52 million.
(ACTION)

Questions & Comments

- Mayor Baca asked if the Sycamore Lift Station is one of the three CIP projects discussed in today's meeting.

    - Mr. Rossi confirmed it is one of the three CIP projects mentioned today.

- Mayor Pro Tem asked whether a Project Labor Agreement (PLA) has been received from Veolia for this project.

    - Mr. Luchetti advised that there is a PLA for this project and committed to providing it to the Water Subcommittee by tomorrow.

- Mayor Pro Tem asked at which Council meeting this item will be presented.

    - Staff anticipates that this item will be presented to Council in August 2025. Staff will confirm.

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WS-25-0434 – Request for Feedback Regarding Niagara Bottling, LLC Permit Violations and Related Issues.
(ACTION)

Staff requested Feedback Regarding Niagara Bottling, LLC Permit Violations and related issues.
(ACTION)

Questions & Comments

- Mayor Pro Tem asked whether the Conditional Use Permit (CUP) for Niagara has been reviewed to confirm the permitted operations.

    - Mr. Rossi advised that the CUP was reviewed and found no indication of fruit juicing being permitted, only bottled water operations.

    - Mayor Pro Tem emphasized the importance of having a Conditional Use Permit (CUP) that grants the authority to enforce compliance effectively, including the ability to revoke or modify the permit if facilities fail to meet requirements.

- Mayor Baca asked staff whether they are satisfied with the current permit held by Niagara Bottling.

    - Mr. Rossi advised that the current permit is inadequate and is being updated to address the existing fruit juicing operations.

    - Mr. Dopudja added that the original permit was for bottle watering only. Over the years, the company has expanded to include *fruit juicing*, but the CUP was not modified to reflect this change.

- Mayor Pro Tem advised that the fruit juice issue was discussed during an EDC meeting, where people were warned accordingly. He recalled that Niagara was either restricted or denied permission to conduct fruit juicing at their facility. Mayor Pro Tem suggested staff review the minutes to verify the details of what transpired.

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<u>WS-25-0428</u> – Utilities Director Update.

Utilities Director Updates:

1. Veolia's Monthly Operations Report (MOR): June 2025 (reporting period April 2025).

Questions & Comments

- Mayor Baca requested that an overview of the Monthly Operations Report be provided with the report.

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UPCOMING MEETINGS/OTHER DISCUSSION ITEMS

- The next Water Subcommittee meeting is confirmed for Thursday, July 24, 2025.

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ADJOURNMENT

The meeting adjourned at 3:10 PM.

City of Rialto

Legislation Text

File #: WS-25-0479, **Version:** 1, **Agenda #:**

For Water Subcommittee Meeting July 24, 2025

TO: Water Subcommittee Members

APPROVAL: John Rossi, Interim Utilities Director

Update on the Rialto Biosolids Handling Upgrades Project at the Wastewater Treatment Plant.

ANALYSIS/DISCUSSION:

Biosolids Project

RWS has indicated that they have concluded negotiations with Veolia regarding their fees for project development and management. With these final numbers, which were received just prior to posting of this packet, staff and RWS will be able to finalize the draft FCWA for City Council consideration in August.

RWS will present the most current information available at the Water Subcommittee meeting.

Independent Technical Review By Jacobs

The City's consulting team, led by Jacobs Engineering, has independently reviewed the technical documents, plans, and pricing. Jacobs independently evaluated a repair and replace in kind alternative, as well as its own design-build alternative, using the same technology and approach proposed by the Concessionaire. The results of the Jacobs evaluation are contained in their attached Technical Memorandum (TM). Although the TM concludes that a repair and replace in kind alternatives may potentially provide construction cost savings over the proposed design-build project, the increased operational savings of the proposed project are expected to provide greater life cycle savings. The report is attached for reference.

Biosolids Project Assessment

Date: July 18, 2025
Project name: Rialto WWTP Solids Handling Project
Project no: D4001100
Company: City of Rialto, California
Prepared by: Ruoren Yu, Ed Fritz, Max Meng, Ted Couch (Jacobs)
Document no: 250702153223_3e608ccc

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1. Background

The City of Rialto, California, requested Jacobs provide an independent assessment of the biosolids facilities upgrades at the Rialto Wastewater Treatment Plant (WWTP). The plant solids-handling facilities consist of waste activated sludge (WAS) thickening, anaerobic digestion, digested sludge dewatering, and cake drying beds. The ongoing design-build (DB) project proposed to upgrade the solids-handling facilities with the following major areas:

- (New) Primary sludge screening
- Thickening upgrade
- Dewatering upgrade
- Anaerobic Digester No. 1 and No. 2 cover replacement
- Digester sludge storage tank retrofit

The main focus of this effort is on evaluating options of repairing or replacing in-kind the existing structures, equipment, and ancillary systems, in contrast to the DB project that has been based on upgrading with new technologies in new buildings. An independent cost model analysis is also provided based on the 60% Design of the proposed DB project.

This technical memorandum (TM) summarizes findings from the field investigation, engineering code evaluation, technical and cost information research, and conceptual-level cost estimating.

2. Key Assumptions

The following assumptions were made in the assessment:

1. The proposed primary sludge thickening process has been determined necessary to improve the operation of downstream equipment and processes (AECOM 2022).
2. The existing Evoqua Dystor membrane covers on the primary digesters have been determined to have reached the end of useful life. Replacing the covers in-kind is considered cost effective compared with replacing the membrane covers with other types of digester covers.
3. The new cover and mixing system for the digester sludge storage tank have been determined necessary to retrofit the tank for desired service. A membrane gas-holder cover—same as proposed for the primary digesters—is considered cost effective compared with other types of covers.

4. Considering these three assumptions, this assessment effort focuses on the thickening and dewatering facilities.

5. The capacity requirements for thickening and dewatering units should match the specifications of the DB project.

3. Existing Condition Evaluation

The existing WAS thickening facility consists of two gravity belt thickeners (GBTs) installed in 1990 and 2000, respectively. According to the *Technical Memorandum – Rialto Biosolids Study* (Biosolids Study, AECOM 2022), both GBTs are required to operate for approximately 9 hours per day, 7 days per week, at a solids loading rate of approximately 930 pounds per hour, achieving an approximate 5.0% thickened WAS concentration. The GBT units are in a common area covered by a canopy structure.

The existing dewatering facility consists of two 2-meter Alfa Laval Ashbrook Winklepress belt filter presses (BFPs). The older BFP 1 has not been functional and has been out of service for many years. The newer BFP 2 was installed in 2000 and currently operates 9 to 10 hours per day and 7 days per week at a solids loading rate of approximately 1,200 pounds per hour. The cake solids concentration is reported to be between 10% and 14% at a feed solids concentration of approximately 2.0%. The BFP units are in two separate areas, each covered by a canopy structure.

The existing facilities were visually observed in the field. The record drawings (2000) for the GBTs and BFP 2 were obtained and reviewed. Drawings for BFP 1 are unavailable. The structural evaluation follows procedures outlined in American Society of Civil Engineers (ASCE) *ASCE 41-23, Seismic Evaluation and Retrofit of Existing Buildings*. Detailed condition evaluation of each facility is described in the following subsections.

3.1 GBT Facility

3.1.1 Process Equipment and Ancillary Systems

The existing thickening facility consists of two GBTs, two thickened sludge pumps, two polymer blending units, and controls for the thickening process. The two GBTs are both Komline-Sanderson model GSC-2x4 Gravabelt Gravity Belt Thickeners. According to the manufacturer, machine number UN-520 (GBT 1) was manufactured in 1989, and machine number UN-865 (GBT 2) was manufactured in 1999. A visual inspection of the units did not reveal any significant signs of wear or corrosion on the units. The age of the equipment and the typical 20-year lifespan of this type of equipment suggest that replacing the GBTs is in order to provide a long-term, reliable thickening solution. Alternatively, these units could be rebuilt or refurbished to provide another few years of service before replacement is required. If these machines are to be rebuilt or refurbished, it is recommended that the manufacturer's service technician come to the site to conduct a more thorough examination to determine whether it would be prudent to refurbish the GBTs and the estimated costs.

In addition to the GBT units, several pieces of ancillary equipment for the thickening operation were evaluated:

- Two thickened sludge pumps transfer the thickened sludge from the GBT thickened sludge hopper to the digester.

- Two washwater booster pumps are used to provide pressurized cleaning water for the belts. These pumps showed visible signs of aging similar to the GBTs. Like the GBTs, these pumps could be refurbished by the manufacturer to provide a few more years of service, but it is recommended they be replaced to provide a long-term, reliable solution.
- Two air compressors, one Ingersoll Rand and one Schulz, provide compressed air for the belt tensioning system. These compressors showed signs of aging and are also recommended to be replaced.
- Two polymer blending systems, one for each thickener, were also visually inspected. These units were manufactured by Fluid Dynamics and are Dynablend model L4-1200-15P units. The units were inoperable and had been bypassed using a chemical metering pump to direct-inject polymer into the sludge feed line. Replacing these polymer blending units is recommended to restore proper polymer activation functionality and to reduce polymer use. While neat polymer can be dosed directly into the sludge feed pipe, there is not enough energy provided to mix the polymer with the feed sludge, greatly reducing the polymer system's efficiency. In addition, the neat polymer should be properly activated with water in a makeup system to provide a polymer solution before adding it to the sludge feed line and to reduce polymer use.

Figure 1 shows an overview of the existing GBT facility.

Figure 1. Overview of GBT Facility (Facing North)

3.1.2 Structural Components

The assessment follows the procedures outlined in *ASCE 41-23, Seismic Evaluation and Retrofit of Existing Buildings*. This report presents an ASCE 41 Tier 1 screening evaluation of the existing steel canopy structures, to assess overall structural condition and potential seismic vulnerability.

3.1.2.1 Steel Canopy Structure

The steel canopy structure was built approximately 25 years ago. Site observation identified localized areas of concern. Rust and corrosion are evident through black staining on the exposed faces of several steel beams and columns, and some connection holes also show signs of rust. Additionally, the existing steel roof panels are damaged, and the crosstie rods appear to have lost tension, potentially compromising their intended structural capacity.

This canopy measures approximately 35 feet (ft) by 45 ft, with a clear height of approximately 14 ft. Its primary structural system consists of six tapered columns and multiple rafters, forming two bays on both the eastern and western sides. While crossties are installed in one of the two bays on each of the eastern and western sides, the southern and northern bays remain open. The roof is framed with I-shape rafters, spaced approximately 4 ft on center and spanning in the north-south direction. Each end of the roof features an approximate 2 ft cantilever and overhang. Numerous in-plane crossties are also present on the roof, connecting the rafters and beams.

3.1.2.2 Foundation

The existing foundation system, as indicated by the record drawings, is a 10-inch-thick uniform concrete slab. This slab features an 18-inch thickened edge, which also serves as support for the perimeter columns. The mat slab was designed with uniform reinforcement consisting of #6 bars at 12 inches O.C. in both the top and bottom layers. This reinforcement scheme generally meets the requirements of current concrete design codes. A visual assessment of the concrete slab surface reveals it to be in generally good condition, with only minor, superficial cracking observed.

3.1.2.3 Platform

The existing platform's structural framing, as detailed in the record drawings, uses 4-inch by 4-inch by 1/4-inch tube sections for typical columns and C8 (channel steel) for beams. The design effectively stiffens the steel framing through the application of both vertical and horizontal diagonal bracings, which serve as the primary lateral resisting system.

Record drawings indicate the existing platform was designed to accommodate foot traffic. Without changes to the load criteria (designed for foot traffic only), the existing platform structure appears adequate for its intended use.

3.1.2.4 Equipment Support

The existing equipment is supported by short, circular, concrete pedestals, with a total of four pedestals under each piece of equipment. According to the record drawings, each concrete pedestal is approximately 18 inches in diameter, with well-detailed concrete ties and vertical reinforcing. The potential for reusing these pedestals should be determined based on the new equipment layout. If the new equipment supporting leg locations can match the existing concrete pedestals, and the operational weight is similar to the existing equipment, these pedestals are likely to be reusable.

3.1.2.5 Seismic Evaluation

A preliminary evaluation of the canopy structure’s lateral load resisting system reveals concerns related to the absence of dedicated lateral bracing members in the east-west direction and questionable crossties on the eastern and western sides. To verify its compliance with the current Building Code, a more detailed ASCE 41 Tier 2 evaluation is needed to assess the adequacy of the lateral load resisting system, which is, however, beyond the scope of this assessment.

Because the proposed project is not anticipated to modify or affect the existing canopy structure, for estimating purposes, no improvements are assumed for the canopy structure.

3.2 BFP 1 Facility

3.2.1 Process Equipment and Ancillary Systems

Dewatering Facility 1 consists of one BFP, three washwater booster pumps, two filtrate pumps in a wet well, and controls for the BFP. The BFP is manufactured by Alfa Laval Ashbrook Simon-Hartley and is a size 3 model KP85 Klampress. This unit was not in operation and had not been operated for several years. Visual inspection revealed significant evidence of corrosion on the structural frame of the press as well as some of the mechanical components. It is recommended this unit be replaced because of its age and disrepair.

The three washwater booster pumps feed washwater to the operable BFP (refer to BFP 2 Facility). The pressurized washwater is used to clean the equipment belts. These pumps were indicated to be operable, and only one was running at the time of inspection. Two of these pumps are manufactured by ITT Inc. and are model 600 centrifugal type 2000 pumps. The third booster pump is manufactured by G&L Pumps and is a model 4STK1 centrifugal type pump. These washwater pumps are old and could be refurbished to provide service for a few more years, but it is recommended these units be replaced to provide a long-term, reliable solution without high maintenance cost.

The BFP filtrate wet well is north of BFP 1 and receives filtrate flows from both BFPs. Two submersible solids-handling pumps service the wet well and pumping filtrate to the filtrate storage tank. Both pumps were operable at the time of inspection, but a detailed inspection was not performed. Operations reported no issues with this filtrate pump station, so no improvements are recommended at this time.

Figure 2 shows an overview of the existing BFP 1 facility.

Figure 2 Overview of BFP 1 Facility (Facing Southeast)

3.2.2 Structural Components

3.2.2.1 Steel Canopy Structure

The canopy structure measures approximately 25 ft by 40 ft, with a clear height of approximately 17 ft. The primary structural system consists of ten 6-inch by 6-inch Hollow Structural Section (HSS) steel columns arranged in a 5 by 2 grid pattern. Each column supports a wide flange beam that runs continuously over the column tops and cantilevers out on each end. The columns were designed as cantilever columns to resist lateral loads without additional bracing. The roof system consists of steel decking spanning in the north-south direction. There is no vertical bracing between columns or in-plane crossties on the roof of this steel canopy.

The exposed steel surfaces of the structure, including columns and beams, generally exhibit good condition with no apparent rust. The steel members appear to be galvanized, providing an additional layer of protection. While some areas show signs of paint deterioration, the underlying steel remains unaffected by rust. This suggests that the galvanization is effectively protecting the steel even where the paint has worn away.

3.2.2.2 Foundation

The columns appear to be embedded into individual concrete footings, approximately 20 inches square. These footings have a joint with an adjacent concrete slab. Cracks were observed on this concrete slab, particularly near the access ramp. However, no major cracks were noted directly on top of the column footings themselves.

A concern was identified on the south side of the foundation where the subgrade fill beneath the concrete slab has become exposed. This exposure could lead to localized bearing loss of the subgrade, potentially causing the concrete slab to become suspended in that area. Such a condition might induce cracking and settlement in the slab due to unsupported spans. To restore the finish grade to its designed elevation and ensure proper bearing, engineered backfill will likely be required in this area.

3.2.2.3 Platform

Based on site observations, the existing stairs and platform appear to have been designed to accommodate pedestrian traffic exclusively. Provided the design of load criteria, specifically the limitation to foot traffic, remains unchanged, the current structure is considered adequate for its specified purpose.

3.2.2.4 Equipment Support

The existing equipment is supported by six short, square concrete pedestals. The reusability of these pedestals will depend entirely on the new equipment layout and operational weight. If the new equipment support points align with the existing pedestals and its operational weight is comparable to the original equipment, these pedestals are likely suitable for reuse.

3.2.2.5 Seismic Evaluation

A Tier 1 screening of the existing structure, conducted per ASCE 41, identified several potential seismic deficiencies:

- Inadequate Roof Diaphragm Components: In the north-south direction, the roof diaphragm lacks sufficient chord and drag strut members at the beam-column joints on the top level. This deficiency may impair the diaphragm's ability to transfer lateral loads efficiently to the vertical lateral force-resisting system.
- Potential Joint Connection Weakness: The lack of detailed documentation on moment frame joints raises concerns about their ability to resist seismic forces, potentially leading to localized failures under lateral loading.
- Unverified Column Capacity: Incomplete data on column strengths hinders accurate evaluation of the structure's ability to support combined gravity and lateral loads, increasing uncertainty in its seismic performance.

Due to these deficiencies and the lack of comprehensive as-built documentation, a Tier 2 deficiency-based evaluation, as outlined in ASCE 41, is recommended. This evaluation should include detailed structural analysis and, if necessary, non-destructive testing to accurately assess the strength and stiffness of critical components, verify the adequacy of the roof diaphragm, and confirm the structure's capacity to resist prescribed seismic force.

3.3 BFP 2 Facility

3.3.1 Process Equipment and Ancillary Systems

Dewatering Facility 2 consists of one BFP, a polymer activation tank, and controls for the press. The BFP is manufactured by Alfa Laval Ashbrook Simon-Hartley and is a model WP888 Winklepress. This unit was visually inspected and revealed significant evidence of corrosion on the structural components of the press. In addition, evidence of corrosion was seen on mechanical components such as roller bearings. Rehabilitation of the equipment is not recommended, based on the visual inspection. It is recommended this unit be replaced because of the age and condition of the equipment and the significant evidence of corrosion.

The existing polymer activation system consists of a batch makedown tank with a mixer. The top of the tank is covered by grating to facilitate the mixer's removal. Following the makedown tank, a post-dilution system adds water to the neat polymer before injection into the feed sludge pipe. This style of polymer activation system is commonly used for dry polymers but not for the emulsion polymer currently being used onsite. It is recommended to replace the polymer activation system with a liquid emulsion polymer blending unit to facilitate better polymer activation and reduce polymer use.

Cake from the BFP falls onto a belt conveyor and is transported to a truck-loading station. The belt conveyor was visually inspected and showed some evidence of wear and corrosion. The belt conveyor could be refurbished as needed based on field inspection by the manufacturer to expand its useful life. For estimating purposes, however, the cost for the belt conveyor services is not included. The truck-loading station consists of a small hopper with a gate to control discharge to the truck below. Operators did not indicate any current issues or challenges with the truck-loading station. It is recommended that the truck-loading station remain in place for future use.

Figure 3 shows an overview of the existing BFP 2 Facility.

Figure 3. Overview of BFP 2 Facility (Facing East)

3.3.2 Structural Components

3.3.2.1 Steel Canopy Structure

The canopy structure measures approximately 20 ft by 40 ft, with a clear height of approximately 16 ft. Its primary structural system consists of four tapered columns, one at each corner, supporting rafters. Lateral bracing is provided by crossties (diagonal steel rods) connecting the frame top and bottom, observed only on the short bay at the facility's southern side. The other three bays remain open, lacking similar bracing.

The roof features I-shape rafters spanning in the east-west direction, spaced at approximately 4 ft on center. Each end of the roof includes a few feet of cantilever and overhang. A couple of in-plane crossties are installed on the roof to connect the rafters and beams, likely contributing to roof diaphragm action.

Widespread severe corrosion observed on the steel columns and beams. Visible rusting is present on the surfaces of these members, and the bolts, nuts, and base plates also show signs of corrosion, indicating potential section loss and compromised connections.

3.3.2.2 Foundation

Based on record drawings, each steel column is supported by a 6.5 ft x 6.5 ft x 3 ft deep footing. These footings appear to incorporate well-defined reinforcing, including #4 ties at the anchor bolts and #8 vertical dowels, designed to ensure adequate anchor capacity for the columns. The typical concrete slab is approximately 6 inches thick, reinforced with #4 bars at 10 inches on center. However, to comprehensively evaluate the adequacy of these foundations to resist current design seismic loads, a more detailed Tier 2 evaluation per ASCE 41 is recommended.

3.3.2.3 Platform

Record drawings indicate the existing platform was designed to accommodate foot traffic. Without changes to the load criteria (designed for foot traffic only), the existing platform structure appears adequate for its intended use.

3.3.2.4 Equipment Support

The existing equipment is supported by four short, circular concrete pedestals per unit. The reusability of these pedestals is contingent upon the new equipment's layout and operational weight. If the new equipment support points align with the existing pedestals and its operational weight is comparable to the original equipment, these pedestals are likely suitable for reuse.

3.3.2.5 Seismic Evaluation

A Tier 1 screening of the existing structure, conducted per ASCE 41 checklists, identified several critical seismic deficiencies:

- Inadequate and Asymmetrical Bracing: Diagonal rods, intended for lateral bracing, are present only in the short bay on the southern side of the facility. This asymmetrical configuration likely compromises the lateral bracing system's ability to ensure structural stability and resist lateral loads effectively across the entire structure.
- Weak Diagonal Rod Connections: The connections of the diagonal rods are insufficient, potentially undermining force transfer. Specifically, the rod ends at the base are anchored to the column web rather than the base plate, reducing their effectiveness in transferring lateral forces.
- Severe Corrosion of Structural Members: Significant corrosion was observed on steel columns and beams, posing a critical risk to their capacity to resist both gravity and lateral loads, thereby compromising overall structural integrity.
- Incomplete Lateral Load Path: Although the roof system includes crossties that may contribute to diaphragm action, the lateral load path from the roof to the foundation appears incomplete, likely insufficient to meet seismic demands.

The preliminary evaluation suggests the existing canopy structures may be rehabilitated to meet the current Building Code requirements following a more detailed structural analysis and engineering effort. For estimating purposes, allowances are used to account for the engineering and construction costs to rehabilitate both canopy structures at the BFP facilities.

4. Solids Technology Evaluation

The evaluation of options to replace existing thickening and dewatering systems in-kind is presented in this section. As discussed in the previous section, Jacobs recommends replacing the existing process equipment because of the equipment age and risks associated with reliability and longevity of rebuilt equipment.

Thickening Equipment

Replacement in-kind of the thickening equipment would include two 2-meter GBTs, two thickened sludge pumps, two polymer makeup units, and controls for the thickening process. Each GBT unit will be sized to process a nominal capacity of 200 to 250 gallons per minute of WAS. Komline-Sanderson is the

manufacturer of the existing thickeners and would be considered for a direct replacement. This approach would minimize changes to the thickening facility because the equipment footings and piping connections would match what already exists at the thickening facility. Although some of the existing platforms may need to be disassembled to facilitate installation, using the same size and manufacturer of the GBTs would also allow the continued use of existing platforms.

The existing thickened sludge pumps are recommended to be replaced by progressive cavity (PC) pumps. PC pumps are commonly used to pump thickened solids because of the non-Newtonian nature and thickness of the thickened solids. The existing washwater booster pumps are recommended to be replaced with new centrifugal pumps of a similar design and footprint. The polymer makeup units are recommended to be replaced by either VeloDyne or Clean 1 One liquid polymer emulsion blending units. These two polymer equipment manufacturers have similar footprint and piping to the existing fluid dynamics units onsite currently. The two existing air compressors are recommended to be replaced by similar air compressors with an airflow capacity of 35 cfm, a receiver capacity of 120 gallons and a maximum pressure of 175 pounds per square inch.

Dewatering Equipment

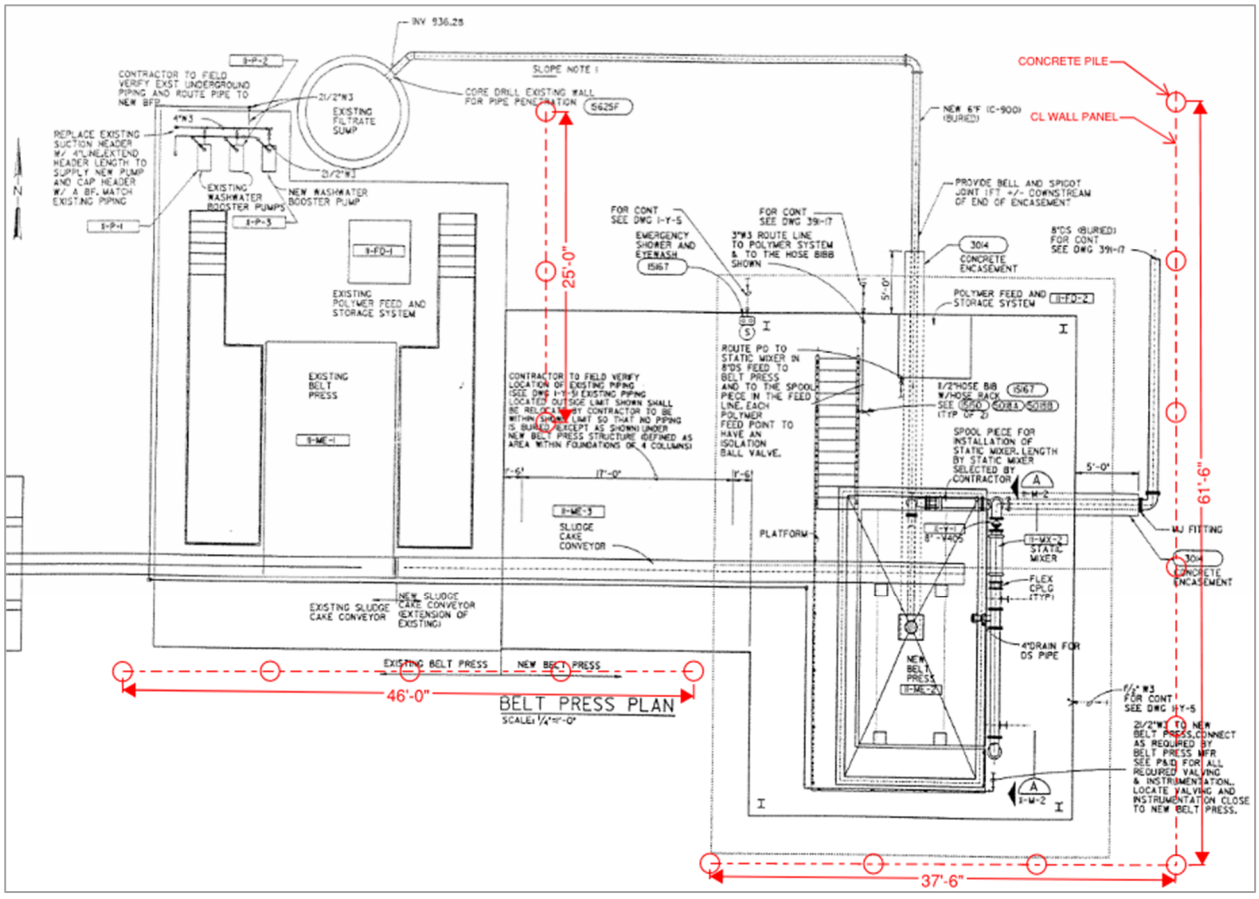
Replacement in-kind of the dewatering equipment would include two 2-meter BFPs, two polymer makeup units, and controls for the dewatering process. Each BFP unit would be sized to process approximately 150 to 200 gallons per minute of digested sludge. Alfa Laval Ashbrook Simon-Hartley is the manufacturer of the existing equipment and would be considered for a direct replacement. This approach would minimize changes to the existing dewatering facilities because the equipment footings and process connections would match the existing facilities. While some of the existing platforms may need to be disassembled to facilitate installation, using the same size BFPs would also allow for the continued use of existing platforms.

The existing polymer makeup system would be replaced by liquid emulsion makeup units manufactured by either VeloDyne or Clean Water 1. These units are designed for use with emulsion polymers and would provide more efficient polymer activation. These makeup units would also not require post-dilution of the polymer before it is added to the feed sludge piping.

The existing three washwater pumps are recommended to be replaced by two centrifugal pumps, one dedicated to each BFP unit. Because the BFPs will be operated as duty and standby, a third washwater pump as a shared standby unit is unnecessary.

According to Operations, better dust control is desired in the dewatering area. Metal wall panels are recommended on the southern and eastern side of each facility. To minimize the impact to existing structures, columns for new wall panels are assumed to be supported on individual concrete piles outside existing slab areas. Figure 4 shows the assumed wall panel layouts (marked up in red) used in this assessment.

Figure 4. New Wall Panels at Dewatering Facilities



The impact on operating costs was analyzed related to replacing existing BFPs with centrifuges for dewatering (as proposed in the DB project). It is generally reported in the industry that centrifuges can achieve 1-2% higher cake solids than belt filter presses. This is not true for all sludges and site-specific testing is required to confirm the actual cake solids improvement, if any. This analysis was performed with the following assumptions:

- A centrifuge can produce 2% higher cake solids than a BFP for the Rialto sludge;
- Solids production was based on one dewatering unit in operation for 10 hours/day, 7 days/week;
- The potential that cakes get wet again (e.g., by rains) on drying beds is not considered;
- The hauling cost of dewatered cake away from the site is $300/wet ton;
- The electricity cost onsite is $0.18/kWh;
- Electricity and hauling costs are the significantly different costs associated with dewatering operation.

The results showed that centrifuges would provide operational savings of approximately $500,000 per year. In conjunction with capital costs for each option, this number could be used to determine the difference in net present values of the BFP and centrifuge replacements or calculate the payback period if the centrifuge option costs more in capital.

5. Project Summary and Opinion of Probable Construction Cost

Following the evaluations described in this TM, the project scope for the thickening and dewatering facilities is summarized as follows:

- Replace existing two GBT units with new 2-meter GBT units
- Replace existing two thickened WAS pumps with new progressive cavity pumps
- Replace existing two GBT washwater pumps with new end-suction centrifugal pumps
- Replace existing two air compressors with new compressor assemblies
- Replace existing two thickening polymer makeup units with two new polymer makeup units
- Replace existing exposed process piping, including valves, in the thickening area
- Construct new containment for thickening polymer feed area
- Replace existing two BFP units with new 2-meter BFP units
- Replace existing three BFP washwater pumps with two new end-suction centrifugal pumps
- Replace existing dewatering polymer makeup unit with two new polymer makeup units
- Construct new wall panels, 10 ft high, on eastern and southern sides of the dewatering facilities
- Repair and rehabilitate two existing canopy structures over the dewatering facilities
- Replace existing exposed process piping, including valves, in the dewatering areas

The following list states the assumptions used to develop the conceptual-level opinion of probable construction cost (OPCC).

- Direct costs are estimated based on the recommended project with Jacobs' estimating model.
- Indirect costs and other project costs are marked up using the same structure and rates as used in the Biosolids Study (AECOM 2022), including:
  - 25% for General Conditions, including mobilization and demobilization, and Prime Contractor overhead and profit (OH&P)
  - 30% for design and engineering services during construction (ESDC)
  - Escalation of 5% per year to the midpoint of construction, August 2026.
  - 40% for project contingency
- The existing equipment platforms and supporting pedestals are assumed not to require modifications to fit the new GBT and BFP units.
- No changes are assumed to be required in existing motor control centers servicing the facilities.
- No odor control facilities are to be added to the thickening or dewatering facilities.
- Permitting cost is not included.
- Owner's costs, such as project management and special inspections, are not included.

In accordance with the recommended project as described above, Class 5 OPCC was performed by Jacobs resulting in a total of approximately $13.2 million and is summarized in Table 1. Details of the OPCC are included in Attachment A.

Table 1. OPCC for the Thickening and Dewatering Repairing and Replacing In-Kind Project

Description	Amount	Totals
Thickening Process Upgrade		
Material, labor, equipment, and subcontractor	$ 1,394,000	
Taxes	$ 78,000	
Subcontractor OH&P	$ 368,000	
Subtotal – direct cost		$ 1,800,000
25% GC, Prime Contractor OH&P	$ 460,000	
30% Final Design & ESDC	$ 690,000	
5% Escalation	$ 150,000	
40% Contingency	$ 1,256,000	
Grand Total – Thickening Process Upgrade		**$ 4,400,000**
Dewatering Process Upgrade		
Material, labor, equipment, and subcontractor	$ 2,795,000	
Taxes	$ 167,000	
Subcontractor OH&P	$ 708,000	
Subtotal – direct cost		$ 3,670,000
25% GC, Prime Contractor OH&P	$ 918,000	
30% Final Design & ESDC	$ 1,376,000	
5% Escalation	$ 298,000	
40% Contingency	$ 2,505,000	
Grand Total – Dewatering Process Upgrade		**$ 8,770,000**
Subtotal Costs[1]		**$ 13,200,000**

1. For AACE International Class 5 estimate, the accuracy range is -50% to +100%.

6. Cost Model Analysis of Design-Build Project

As described in the **Background**, Jacobs developed a cost model for the ongoing Solids Handling DB Project, as defined in the 60% Submittal for *City of Rialto Wastewater Treatment Plant Solids Handling DB Project* (AECOM/Lyles JV 2024). The following assumptions were made in Jacobs' cost model:

- Project scope and quantities are taken from *Rialto Solids Handling – 60_Plan Set_26Sept24* (AECOM/Lyles JV 2024).
- Equipment, subcontractor, and design costs are taken from *Rialto Biosolids – GMP@60_Design1* (AECOM/Lyles, JV 2024).
- Contingency and overhead and profit percentages are taken from *Rialto Biosolids – GMP@60_Design1* (AECOM/Lyles, JV 2024).
- Exclusions and clarifications are taken from *Rialto Biosolids – GMP@60_Design1* (AECOM/Lyles, JV 2024).
- Costs assume an 18-month construction duration, with Notice to Proceed in June 2026.
- AECOM/Lyles JV deliverables were not reviewed for technical accuracy or quality.

A summary of the cost model results is provided in Attachment B. The total cost from the model is approximately $29.9 million.

7. Conclusions

A comparison was made among the repairing and replacing in-kind project OPCC being evaluated, the 60% cost model results for the DB Project, and the GMP proposed by the Concessionaire team. The comparison is summarized in Table 2.

Table 2. Comparison of Project Costs

Description	Jacobs Estimate of Costs from this TM		Concessionaire Proposed Costs
	R&R Project	DB Project	DB Project
Total incurring to bring Project to completion	$ 13,200,000 [a] + $ 13,890,000 [b] = $ 27,090,000	$ 29,860,000 [c]	$ 36,063,185 [d]
Owner Construction Management [e]	$ 1,730,250	$ 1,730,250	Included in GMP above
Subtotal	**$ 28,820,250**	**$ 31,590,250**	**$ 36,063,185**
Total authorized to date [f]	$ 2,006,034	$ 2,006,034	$ 2,006,034
Project Total [g]	**$ 30,800,000**	**$ 33,600,000**	**$ 38,070,000**

R&R = repairing and replacing in-kind

[a] From OPCC Cost Estimate in Table 1.

[b] Repairing and replacing in-kind project assumes the same scope for primary sludge screening, anaerobic digesters upgrade, and digester sludge storage tank retrofit as proposed in the DB Project. Full project costs for these facilities were estimated from the Jacobs 60% cost model estimate, by scaling the total project cost in proportion to the direct cost for those facilities.

[c] Details provided in Attachment B.

[d] Proposed GMP number from Concessionaire as of July 10, 2025, including approximately $4.4 million in concession/Veolia related fees, as shown in Attachment C.

[e] Estimated based on Concessionaire proposed CPM cost for the DB Project (dated July 10, 2025).

[f] Authorized costs to date include Biosolids Study (AECOM 2022) and development of the 60% design package.

[g] All totals were rounded to $10,000.

Key conclusions from this TM include:

- The repairing and replacing in-kind option is anticipated to have a capital saving of approximately $2.8 million compared to the proposed DB Project, based on Jacobs' cost model on the 60% design.
- To maximize the cost benefit of the advanced dewatered biosolids, it is best practice to prevent potential rainwater from accumulating in the cake by storing it in a covered area prior to hauling and disposal offsite. The covering could be greenhouse-type, to maximize solar radiation and evaporation.

8. References

AECOM. 2022. Rialto Biosolids Study Technical Memorandum.

AECOM/Lyles Joint Venture (JV). 2024. *City of Rialto Wastewater Treatment Plant Solids Handling DB Project.*

Attachment A
Class 5 Opinion of Probable Construction Cost

Rialto WWTP Biosolids
Schematic Estimate
Rev. 3

Project name	Rialto WWTP Biosolids Estimate
Estimator	KS
Labor rate table	L 25 Union 2025
Equipment rate table	E_EqRates_2025_100%
Job size	1 LS
Project	Municipal
Project Number	D4001100
Estimate Class 1-5	5
Project Manager	Ted Couch
QC Reviewer	Augustus Tweneboa-Kodua
Rev No. / Date	R3/07-17-2025
Report format	Sorted by 'Facility/Work Pkg' 'Work Pkg' summary Allocate addons Paginate
Factor table	California-San Bernardino
Alternates	(none)

Facility	Work Pkg	Description	Takeoff Quantity	Grand Total Price	Grand Total with Markups
01		Thickening Process Area			
	02.0	Existing Conditions	9.00 EA	18,510.19 /EA	166,592
	26.0	Electrical Work	10.00 EA	54,343.08 /EA	543,431
	40.0	Process Pipe	163.00 LF	604.02 /LF	98,454
	40.9	Instrumentation & Controls	27.00 EA	18,162.64 /EA	490,391
	44.0	Pollution and Waste Control Equipment	9.00 EA	266,668.62 /EA	2,400,018
		01 Thickening Process Area	*1.00* LS	3,698,885.96 /LS	3,698,886
02		Dewatering Process Area			
	02.0	Existing Conditions	8.00 EA	16,509.26 /EA	132,074
	03.0	Concrete Work	*1.00* LS	88,950.64 /LS	88,951
	05.0	Metals	*1.00* LS	850,999.74 /LS	851,000
	07.0	Thermal and Moisture Protection	*1.00* SF	730,828.45 /SF	730,828
	26.0	Electrical Work	5.00 EA	59,517.88 /EA	297,589
	31.0	Earthwork	*1.00* LS	176,768.49 /LS	176,768
	40.0	Process Pipe	202.00 LF	868.57 /LF	175,451
	40.9	Instrumentation & Controls	13.00 EA	13,006.48 /EA	169,084
	43.0	Process Gas and Liquid Handling Equipment	2.00 EA	1,899,630.44 /EA	3,799,261
	44.0	Pollution and Waste Control Equipment	6.00 EA	162,432.18 /EA	974,593
		02 Dewatering Process Area	*1.00* LS	7,395,599.73 /LS	7,395,600

Estimate Totals

Description	Rate	Amount	Totals
Labor		2,399,692	
Material		8,204,506	
Subcontract		287,125	
Equipment		203,163	
Other			
Subtotal OH&P		**11,094,486**	**11,094,486**
Final Design & Engineering Services During Construction	30.000 %	2,066,012	
Total Construction Cost			**13,160,498**

Facility	Work Pkg	Trade Pkg	Unit Price	Description	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
01				**Thickening Process Area**										
	02.0			**Existing Conditions**										
		02.00		**Existing Conditions / Demolition**										
			02.01.05.00	**Process Equipment Demolition**										
				Demolish Polymer Blending Unit	1.00 EA	2,500	-	-	-	-	2,499.97 /EA	2,500	6,457.96 /EA	6,458
				Demolish Existing Gravity Thickners	2.00 EA	36,000	-	-	-	-	17,999.99 /EA	36,000	46,497.88 /EA	92,996
				Demolish Misc Pipes	1.00 ls	3,590	0	-	-	-	3,590.00 /ls	3,590	9,273.75 /ls	9,274
				Demolish Misc Electrical	1.00 ls	3,000		-	-	-	3,000.01 /ls	3,000	7,749.68 /ls	7,750
				Demolish Existing Pumps	6.00 EA	14,400					2,400.01 /EA	14,400	6,199.74 /EA	37,198
				Haul and Dispose Demolished Items	1.00 ls	5,000					5,000.02 /ls	5,000	12,916.15 /ls	12,916
				02.01.05.00 Process Equipment Demolition	**9.00 EA**	**64,490**					**7,165.56 /EA**	**64,490**	**18,510.19 /EA**	**166,592**
				02.00 Existing Conditions / Demolition	**9.00 EA**	**64,490**					**7,165.56 /EA**	**64,490**	**18,510.19 /EA**	**166,592**
				02.0 Existing Conditions	**9.00 EA**	**64,490**					**7,165.56 /EA**	**64,490**	**18,510.19 /EA**	**166,592**
	26.0			**Electrical Work**										
		26.15		**Process Electrical**										
			26.00.99.00	**Electrical, Other**										
				Electrical Conduit & Wire	640.00 lf	15,159	10,441	-	-	-	40.00 /lf	25,600	106.59 /lf	68,220
				VFD 25 HP NEMA-1	4.00 EA	24,100	15,900	-	-	-	10,000.00 /EA	40,000	26,640.24 /EA	106,561
				MCC's	6.00 EA	90,000		-	-	-	15,000.00 /EA	90,000	39,498.26 /EA	236,990
				Misc. Electrical Allowance	1.00 ls	50,000		-	-	-	50,000.01 /ls	50,000	131,660.86 /ls	131,661
				26.00.99.00 Electrical, Other	**10.00 EA**	**179,259**	**26,341**				**20,560.00 /EA**	**205,600**	**54,343.08 /EA**	**543,431**
				26.15 Process Electrical	**10.00 EA**	**179,259**	**26,341**				**20,560.00 /EA**	**205,600**	**54,343.08 /EA**	**543,431**
				26.0 Electrical Work	**10.00 EA**	**179,259**	**26,341**				**20,560.00 /EA**	**205,600**	**54,343.08 /EA**	**543,431**
	40.0			**Process Pipe**										
		40.10		**Exposed Process Pipe**										
			40.00.99.01	**Process Pipe, Other**										
				4" DI pipe	10.00 LF	642	358	-	-	-	100.00 /LF	1,000	261.08 /LF	2,611
				4" DI, bellows	4.00 ea	762	2,638	-	-	-	850.01 /ea	3,400	2,246.87 /ea	8,987
				6" DI pipe	41.00 LF	3,352	2,183	-	-	-	135.00 /LF	5,535	352.86 /LF	14,467
				6" DI, bellows	2.00 ea	525	1,675	-	-	-	1,100.02 /ea	2,200	2,906.47 /ea	5,813
				1.5" black steel pipe, sched 40	112.00 LF	4,675	2,605	-	-	-	65.00 /LF	7,280	169.71 /LF	19,008
				1.5" DI Elbows	23.00 ea	7,955	95	-	-	-	350.00 /ea	8,050	904.45 /ea	20,802
				40.00.99.01 Process Pipe, Other	**163.00 LF**	**17,911**	**9,554**				**168.50 /LF**	**27,465**	**439.81 /LF**	**71,688**
			40.20.20.01	**Other Valves**										
				Install check valve, threaded, 1 1/2"	6.00 ea	1,616	-	-	-	-	269.25 /ea	1,616	695.53 /ea	4,173
				Install check valve, Flgd, DIP, 4"	4.00 ea	2,154	-	-	-	-	538.50 /ea	2,154	1,391.06 /ea	5,564
				FURNISH Check valve, bronze, threaded, 150#, lever oper., 1 1/2"	6.00 EA	-	3,000	-	-	-	500.00 /EA	3,000	1,330.36 /EA	7,982
				FURNISH Check valve, iron body, cushioned, Flgd, 150#, 4"	4.00 EA	-	3,400	-	-	-	850.00 /EA	3,400	2,261.61 /EA	9,046
				40.20.20.01 Other Valves	**10.00 EA**	**3,770**	**6,400**				**1,016.95 /EA**	**10,170**	**2,676.60 /EA**	**26,766**
				40.10 Exposed Process Pipe	**163.00 LF**	**21,680**	**15,954**				**230.89 /LF**	**37,634**	**604.02 /LF**	**98,454**
				40.0 Process Pipe	**163.00 LF**	**21,680**	**15,954**				**230.89 /LF**	**37,634**	**604.02 /LF**	**98,454**
	40.9			**Instrumentation & Controls**										
		40.90		**Instrumentation & Controls**										
			40.90.06.01	**I&C, Programming**										
				Local panel	2.00 EA	7,368	24,332	-	-	-	15,850.00 /EA	31,700	42,679.33 /EA	85,359
				Transmitters Level	2.00 EA	1,091	1,909	-	-	-	1,499.99 /EA	3,000	4,023.77 /EA	8,048
				Combined Washwater Flowmeter	1.00 EA	545	955	-	-	-	1,500.01 /EA	1,500	4,023.82 /EA	4,024
				Analog, I/O	6.00 EA	5,850		-	-	-	975.00 /EA	5,850	2,567.39 /EA	15,404
				Digital, I/O	10.00 EA	11,000		-	-	-	1,100.00 /EA	11,000	2,896.55 /EA	28,965
				PLC Cabinet	1.00 EA	15,000		-	-	-	15,000.03 /EA	15,000	39,498.33 /EA	39,498
				PI - Pressure Indicator	5.00 EA	180	3,570	-	-	-	750.00 /EA	3,750	2,030.25 /EA	10,151
				I&C Conduit & Wire	800.00 lf	9,651	26,349	-	-	-	45.00 /lf	36,000	121.05 /lf	96,838
				Allow for Misc Items	1.00 ls	15,480	59,520	-	-	-	74,999.99 /ls	75,000	202,104.04 /ls	202,104
				40.90.06.01 I&C, Programming	**27.00 EA**	**66,165**	**116,635**				**6,770.37 /EA**	**182,800**	**18,162.64 /EA**	**490,391**
				40.90 Instrumentation & Controls	**27.00 EA**	**66,165**	**116,635**				**6,770.37 /EA**	**182,800**	**18,162.64 /EA**	**490,391**
				40.9 Instrumentation & Controls	**27.00 EA**	**66,165**	**116,635**				**6,770.37 /EA**	**182,800**	**18,162.64 /EA**	**490,391**
	44.0			**Pollution and Waste Control Equipment**										
		44.40		**Process Equipment - Pumps**										
			44.05.49.02	**Submersible Pump: 21hp-50hp**										
				Thickened sludge pumps (progressive cavity), 25 Hp	2.00 EA	-	80,000	-	-	-	40,000.00 /EA	80,000	106,428.66 /EA	212,857
				Set base elbow / pump assembly, 21 - 50 hp	2.00 ea	9,084	100	-	-	-	4,592.24 /ea	9,184	11,866.63 /ea	23,733
				Washwater Pump, 3hp	2.00 EA	6,056	30,000	-	-	-	18,028.16 /EA	36,056	47,733.14 /EA	95,466
				Polymer Feed Pumps	2.00 EA	3,028	19,000	0	0	0	11,014.08 /EA	22,028	29,188.01 /EA	58,376

Facility	Work Pkg	Trade Pkg	Unit Price	Description	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				44.05.49.02 Submersible Pump: 21hp-50hp	6.00 EA	18,169	129,100				24,544.83 /EA	147,269	65,072.15 /EA	390,433
				44.40 Process Equipment - Pumps	6.00 EA	18,169	129,100				24,544.83 /EA	147,269	65,072.15 /EA	390,433
		44.48		Process Equipment - Thickeners										
			44.05.71.00	Gravity Belt Thickener										
				FURNISH Gravity Belt Thickner, 2 Meter, 200-250 gpm	2.00 EA	-	670,000	-	-	-	335,000.00 /EA	670,000	891,340.07 /EA	1,782,680
				Install Gravity Belt Thickner	2.00 ea	33,310	-	-	-	-	16,654.88 /ea	33,310	43,023.17 /ea	86,046
				44.05.71.00 Gravity Belt Thickener	2.00 EA	33,310	670,000				351,654.88 /EA	703,310	934,363.23 /EA	1,868,726
				44.48 Process Equipment - Thickeners	2.00 EA	33,310	670,000				351,654.88 /EA	703,310	934,363.23 /EA	1,868,726
		44.69		Process Equipment - Mixers										
			44.05.75.00	Liquid Chemical Feed Equipment										
				FURNISH Polymer Blending 10 gph polymer feed, 1,200 gph dilution water	1.00 EA	-	50,000	-	-	-	50,000.00 /EA	50,000	133,035.82 /EA	133,036
				Install Polymer Blending Unit, Skid	1.00 ea	3,028	-	-	-	-	3,028.16 /ea	3,028	7,822.39 /ea	7,822
				44.05.75.00 Liquid Chemical Feed Equipment	1.00 EA	3,028	50,000				53,028.16 /EA	53,028	140,858.21 /EA	140,858
				44.69 Process Equipment - Mixers	1.00 EA	3,028	50,000				53,028.16 /EA	53,028	140,858.21 /EA	140,858
				44.0 Pollution and Waste Control Equipment	9.00 EA	54,507	849,100				100,400.76 /EA	903,607	266,668.62 /EA	2,400,018
				01 Thickening Process Area	*1.00* LS	386,102	1,008,030				1,394,131.49 /LS	1,394,131	3,698,885.96 /LS	3,698,886
02				Dewatering Process Area										
	02.0			Existing Conditions										
		02.00		Existing Conditions / Demolition										
			02.01.05.00	Process Equipment Demolition										
				Demolish Polymer Blending Unit	2.00 EA	9,000	-	-	-	-	4,500.00 /EA	9,000	11,624.47 /EA	23,249
				Demolish Belt Filter Press	2.00 EA	17,000	-	-	-	-	8,500.01 /EA	17,000	21,957.35 /EA	43,915
				Demolish Misc Pipes	1.00 ls	5,385		-	-	-	5,385.00 /ls	5,385	13,910.62 /ls	13,911
				Demolish Misc Electrical	1.00 ls	5,143	0	-	-	-	5,142.72 /ls	5,143	13,284.77 /ls	13,285
				Demolish Existing Pumps	4.00 EA	9,600	0	0	0	0	2,400.01 /EA	9,600	6,199.73 /EA	24,799
				Haul and Dispose Demolished Items	1.00 ls	5,000					5,000.02 /ls	5,000	12,916.14 /ls	12,916
				02.01.05.00 Process Equipment Demolition	8.00 EA	51,128					6,390.97 /EA	51,128	16,509.26 /EA	132,074
				02.00 Existing Conditions / Demolition	8.00 EA	51,128					6,390.97 /EA	51,128	16,509.26 /EA	132,074
				02.0 Existing Conditions	8.00 EA	51,128					6,390.97 /EA	51,128	16,509.26 /EA	132,074
	03.0			Concrete Work										
		03.15		Cast-In-Place Concrete, Grade Beams										
			03.10.03.18	Cast-In-Place Concrete, Grade Beams										
				Grade Beams, 18"x18"	17.00 CY	19,530	13,970	-	499	-	2,000.00 /CY	34,000	5,232.39 /CY	88,951
				03.10.03.18 Cast-In-Place Concrete, Grade Beams	17.00 CY	19,530	13,970		499		2,000.00 /CY	34,000	5,232.39 /CY	88,951
				03.15 Cast-In-Place Concrete, Grade Beams	17.00 CY	19,530	13,970		499		2,000.00 /CY	34,000	5,232.39 /CY	88,951
				03.0 Concrete Work	*1.00* LS	19,530	13,970		499		33,999.95 /LS	34,000	88,950.64 /LS	88,951
	05.0			Metals										
		05.00		Metals										
			05.10.01.00	Metals, Structural Steel										
				Misc. Repairs to Existing Steel Member	2,944.00 sf	22,399	65,921	-	-	-	30.00 /sf	88,320	79.23 /sf	233,258
				Add Steel to Existing Members for Reinforcement	1.00 ls	3,683	29,503	-	16,814	-	50,000.08 /ls	50,000	132,750.57 /ls	132,751
				Structural Analysis of Existing Canopies and Fence Wall	120.00 mh	24,000	0	-	0	-	200.00 /mh	24,000	516.64 /mh	61,997
				Steel Support Framing for Metal Panels (Assume 8lb/sf)	9.00 TN	20,612	81,298	-	33,091	-	15,000.00 /TN	135,000	39,733.25 /TN	357,599
				05.10.01.00 Metals, Structural Steel	9.00 TN	70,694	176,721		49,904		33,035.56 /TN	297,320	87,289.50 /TN	785,605
				05.00 Metals	*1.00* LS	70,694	176,721		49,904		297,320.01 /LS	297,320	785,605.49 /LS	785,605
		05.50		Metal Fabrications										
			05.50.05.00	Metal Stairs and Platforms										
				Misc. Repairs to Stairs and Platforms	1.00 ls	14,498	10,502	-	-	-	24,999.97 /ls	25,000	65,394.25 /ls	65,394
				05.50.05.00 Metal Stairs and Platforms	0.00	14,498	10,502				/SF	25,000	/SF	65,394
				05.50 Metal Fabrications	*1.00* LS	14,498	10,502				24,999.97 /LS	25,000	65,394.25 /LS	65,394
				05.0 Metals	*1.00* LS	85,192	187,223		49,904		322,319.98 /LS	322,320	850,999.74 /LS	851,000
	07.0			Thermal and Moisture Protection										
		07.00		Thermal & Moisture Protection										
			07.60.02.00	Thermal & Moisture Protection, Metal Roofing										
				New Steel Canopy Roof	2,944.00 sf	64,401	82,799	-	-	-	50.00 /sf	147,200	131.34 /sf	386,667
				Remove Existing Roof	2,944.00 sf	22,080	0	-	-	-	7.50 /sf	22,080	19.37 /sf	57,037
				07.60.02.00 Thermal & Moisture Protection, Metal Roofing	0.00	86,481	82,799				/SF	169,280	/SF	443,704
			07.70.11.00	Thermal & Moisture Protection, Siding, Soffits & Fascias										
				Steel Metal Panel Enclosure	1,710.00 sf	-	-	111,150	-	-	65.00 /sf	111,150	167.91 /sf	287,125
				07.70.11.00 Thermal & Moisture Protection, Siding, Soffits & Fascias	0.00			111,150			/SF	111,150	/SF	287,125
				07.00 Thermal & Moisture Protection	0.00	86,481	82,799	111,150			/SF	280,430	/SF	730,828
				07.0 Thermal and Moisture Protection	*1.00* SF	86,481	82,799	111,150			280,430.02 /SF	280,430	730,828.45 /SF	730,828
	26.0			Electrical Work										

Facility	Work Pkg	Trade Pkg	Unit Price	Description	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
		26.15		Process Electrical										
			26.00.99.00	Electrical, Other										
				Electrical Conduit & Wire	445.00 lf	10,540	7,260	-	-	-	40.00 /lf	17,800	106.59 /lf	47,434
				MCC's	5.00 EA	75,000	0	-	-	-	14,999.99 /EA	75,000	39,498.23 /EA	197,491
				Misc. Electrical Allowance	1.00 ls	20,000	0	-	-	-	20,000.04 /ls	20,000	52,664.44 /ls	52,664
				26.00.99.00 Electrical, Other	5.00 EA	105,540	7,260				22,560.00 /EA	112,800	59,517.88 /EA	297,589
				26.15 Process Electrical	5.00 EA	105,540	7,260				22,560.00 /EA	112,800	59,517.88 /EA	297,589
				26.0 Electrical Work	5.00 EA	105,540	7,260				22,560.00 /EA	112,800	59,517.88 /EA	297,589
	31.0			Earthwork										
		31.17		Piling and Caissons										
			31.17.02.00	Earthworks, Caissons										
				Piles, mobilization & Demob	1.00 ls	20,490	-	-	24,510	-	45,000.04 /ls	45,000	118,144.38 /ls	118,144
				Predrilled Concrete piles, 18" diameter,	340.00 VLF	2,290	18,367	-	1,443	-	65.00 /VLF	22,100	172.42 /VLF	58,624
				31.17.02.00 Earthworks, Caissons	340.00 VLF	22,780	18,367		25,953		197.35 /VLF	67,100	519.91 /VLF	176,768
				31.17 Piling and Caissons	340.00 VLF	22,780	18,367		25,953		197.35 /VLF	67,100	519.91 /VLF	176,768
				31.0 Earthwork	*1.00* LS	22,780	18,367		25,953		67,099.96 /LS	67,100	176,768.49 /LS	176,768
	40.0			Process Pipe										
		40.10		Exposed Process Pipe										
			40.00.99.01	Process Pipe, Other										
				3" DI pipe	102.00 LF	6,223	3,467	-	-	-	95.00 /LF	9,690	248.04 /LF	25,300
				3" DI, bellows	23.00 ea	4,123	14,277	-	-	-	800.00 /ea	18,400	2,114.68 /ea	48,638
				6" DI pipe	100.00 LF	8,175	5,325	-	-	-	135.00 /LF	13,500	352.86 /LF	35,286
				6" DI, bellows	12.00 ea	3,152	10,048	-	-	-	1,100.00 /ea	13,200	2,906.42 /ea	34,877
				40.00.99.01 Process Pipe, Other	202.00 LF	21,673	33,117				271.24 /LF	54,790	713.37 /LF	144,101
			40.20.20.01	Other Valves										
				Install check valve, Flgd, DIP, 3"	8.00 ea	2,872	-	-	-	-	359.00 /ea	2,872	927.37 /ea	7,419
				Install check valve, Flgd, DIP, 6"	2.00 ea	1,436	-	-	-	-	718.00 /ea	1,436	1,854.76 /ea	3,710
				FURNISH Check valve, iron body, cushioned, Flgd, 150#, 3"	8.00 EA	-	5,600	-	-	-	700.00 /EA	5,600	1,862.50 /EA	14,900
				FURNISH Check valve, iron body, cushioned, Flgd, 150#, 6"	2.00 EA	-	2,000	-	-	-	1,000.00 /EA	2,000	2,660.71 /EA	5,321
				40.20.20.01 Other Valves	10.00 EA	4,308	7,600				1,190.80 /EA	11,908	3,134.99 /EA	31,350
				40.10 Exposed Process Pipe	202.00 LF	25,981	40,717				330.19 /LF	66,698	868.57 /LF	175,451
				40.0 Process Pipe	202.00 LF	25,981	40,717				330.19 /LF	66,698	868.57 /LF	175,451
	40.9			Instrumentation & Controls										
		40.90		Instrumentation & Controls										
			40.90.06.01	I&C, Programming										
				Feed Sludge Flowmeters	2.00 EA	1,091	1,909	-	-	-	1,500.00 /EA	3,000	4,023.79 /EA	8,048
				Combined Washwater Flowmeter	1.00 EA	545	955	-	-	-	1,500.02 /EA	1,500	4,023.87 /EA	4,024
				Analog, I/O	6.00 EA	5,850	0	-	-	-	975.00 /EA	5,850	2,567.39 /EA	15,404
				Digital, I/O	2.00 EA	2,200	0	-	-	-	1,099.99 /EA	2,200	2,896.50 /EA	5,793
				PLC Cabinet	1.00 EA	15,000	0	-	-	-	15,000.03 /EA	15,000	39,498.34 /EA	39,498
				Washwater Pump Discharge Pressure Indicator	1.00 EA	36	714	-	-	-	750.00 /EA	750	2,030.25 /EA	2,030
				I&C Conduit & Wire	445.00 lf	5,369	14,656	-	-	-	45.00 /lf	20,025	121.05 /lf	53,866
				Allow for Misc Items	1.00 ls	3,096	11,904	-	-	-	15,000.00 /ls	15,000	40,420.81 /ls	40,421
				40.90.06.01 I&C, Programming	13.00 EA	33,187	30,138				4,871.16 /EA	63,325	13,006.48 /EA	169,084
				40.90 Instrumentation & Controls	13.00 EA	33,187	30,138				4,871.16 /EA	63,325	13,006.48 /EA	169,084
				40.9 Instrumentation & Controls	13.00 EA	33,187	30,138				4,871.16 /EA	63,325	13,006.48 /EA	169,084
	43.0			Process Gas and Liquid Handling Equipment										
		43.05		Process Equipment - Dewatering										
			43.05.16.02	Belt Filter Press										
				FURNISH Belt Filter Press 2-meter, 150-200 gpm	2.00 EA	-	1,350,000	-	-	-	675,000.00 /EA	1,350,000	1,795,983.73 /EA	3,591,967
				Install Belt Filter Press	2.00 ea	80,246	-	-	-	-	40,123.12 /ea	80,246	103,646.71 /ea	207,293
				43.05.16.02 Belt Filter Press	2.00 EA	80,246	1,350,000				715,123.12 /EA	1,430,246	1,899,630.44 /EA	3,799,261
				43.05 Process Equipment - Dewatering	2.00 EA	80,246	1,350,000				715,123.12 /EA	1,430,246	1,899,630.44 /EA	3,799,261
				43.0 Process Gas and Liquid Handling Equipment	2.00 EA	80,246	1,350,000				715,123.12 /EA	1,430,246	1,899,630.44 /EA	3,799,261
	44.0			Pollution and Waste Control Equipment										
		44.40		Process Equipment - Pumps										
			44.05.49.02	Submersible Pump: 21hp-50hp										
				Washwater Pump, 90 gpm @ 138 ft head	2.00 EA	7,324	22,676	-	-	-	15,000.00 /EA	30,000	39,626.93 /EA	79,254
				Polymer Feed Pumps	2.00 EA	3,028	19,000	0	0	0	11,014.08 /EA	22,028	29,188.01 /EA	58,376
				44.05.49.02 Submersible Pump: 21hp-50hp	4.00 EA	10,353	41,676				13,007.04 /EA	52,028	34,407.47 /EA	137,630
				44.40 Process Equipment - Pumps	4.00 EA	10,353	41,676				13,007.04 /EA	52,028	34,407.47 /EA	137,630
		44.69		Process Equipment - Mixers										
			44.05.75.00	Liquid Chemical Feed Equipment										
				FURNISH Polymer Blending Unit 60 gph polymer feed, 12,000 gph dilution water	2.00 EA	-	300,000	-	-	-	150,000.00 /EA	300,000	399,107.49 /EA	798,215

Facility	Work Pkg	Trade Pkg	Unit Price	Description	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
			44.05.75.00	Liquid Chemical Feed Equipment										
				Install Polymer Blending Unit, Skid	2.00 ea	15,000	-	-	-	-	7,500.00 /ea	15,000	19,374.12 /ea	38,748
				44.05.75.00 Liquid Chemical Feed Equipment	2.00 EA	15,000	300,000				157,499.99 /EA	315,000	418,481.61 /EA	836,963
				44.69 Process Equipment - Mixers	2.00 EA	15,000	300,000				157,499.99 /EA	315,000	418,481.61 /EA	836,963
				44.0 Pollution and Waste Control Equipment	6.00 EA	25,353	341,676				61,171.36 /EA	367,028	162,432.18 /EA	974,593
				02 Dewatering Process Area	*1.00* LS	535,418	2,072,150	111,150	76,357		2,795,074.97 /LS	2,795,075	7,395,599.73 /LS	7,395,600

Estimate Totals

Description	Rate		Amount	Totals
Labor			921,520	
Material			3,080,180	
Subcontract			111,150	
Equipment			76,357	
Other				
Subtotal Raw Costs			**4,189,207**	**4,189,207**
Material Sales & Use Tax	7.750	%	238,714	
Construction Equip Tax	7.750	%	5,918	
Total Taxes			**244,632**	**4,433,839**
Existing Conditions I,OH&P	25.000	%	28,904	
Concrete Work I,OH&P	25.000	%	8,500	
Masonry Work I,OH&P	25.000	%		
Metals Work I,OH&P	25.000	%	80,580	
Architectural (Div 6-12)I,OH&P	25.000	%	70,108	
Special Construction I,OH&P	25.000	%		
Conveying Equipment I,OH&P	25.000	%		
Mechanical Work I,OH&P	25.000	%		
Electrical Work I,OH&P	30.000	%	95,520	
Site/Civil I,OH&P	25.000	%	16,775	
Buried Piping I,OH&P	25.000	%		
Tank Construction I,OH&P	25.000	%		
Process Piping I,OH&P	25.000	%	26,083	
Instruments & Controls I,OH&P	30.000	%	73,838	
Material Handling I,OH&P	25.000	%		
Process Equipment I,OH&P	25.000	%	675,220	
Subtotal Subcontractor I,OH&P			**1,075,528**	**5,509,367**
General Conditions/Prime Contractor OH&P	25.000	%	1,377,341	
Subtotal OH&P			**1,377,341**	**6,886,708**
Final Design & Engineering Services During Construction	30.000	%	2,066,012	
Subtotal Final Design & Engineering Services			**2,066,012**	**8,952,720**
Escalation	5.000	%	447,636	
Subtotal Escalation			**447,636**	**9,400,356**
Contingency	40.000	%	3,760,142	
Subtotal Contingency			**3,760,142**	**13,160,498**
Total Construction Cost				**13,160,498**

Attachment B
Cost Model Results

ESTIMATE SUMMARY SHEET

GENERAL PROJECT INFORMATION

DESCRIPTION	DESCRIPTION
Project Name	Solids Handling DB
Owner Name	City of Rialto
Owner Contact	Stephen Dopudja
Owner Contact Telephone No.	
Owners Engineer	
Owners Construction Manager	
Project Location	Rialto, CA
Bidding Entity	
Estimator	
Estimate Number	
Bid Date	
Award Date	
Mobilization Date	
Mechanical Completion Date	
Substantial Completion Date	
Final Acceptance Date	
Demobilization Date	
Hours Worked per Day Estimated	8.00
Days per Week Estimated	5.00
Weeks per Month Estimated	4.33
Hours per Week Estimated	40.00
Hours per Month Estimated	173.33
OT Hours per Week	0.00
DT Hours per Week	0.00
Completion Time in Months	18

PROJECT FACTS

DESCRIPTION	YES / NO
Union Labor	
Davis Bacon	
Prevailing Wage	
Project Labor Agreement	
Owner Furnished Equipment	
Firm Lump Sum	
Time and Material	
Target Price	
Other Contract Methodology	
EPC Contract	
Bid Build Contract	
Unusual Risks	
Wage Escalation Required	
Materials Escalatioin Required	
Sales Taxes Required	
Use Taxes Required	
Other Taxes Required	
Per Diem Required	
Travel Costs Required	
Relocation Costs Required.	

MANHOUR INFORMATION

DESCRIPTION	MANHOURS
Direct Labor Manhours	20,943
Support Labor Manhours	688
Staff Manhours	8,489
Subcontractor Manhours	
TOTALS	**30,120**

COST INFORMATION

DESCRIPTION	COST
Direct Labor	$1,372,599
Support Labor	$36,340
Staff	$885,665
General Conditions	$112,364
Construction Equipment	$498,904
Subcontractors	$13,191,553
Other	$9,470
Materials & Equipment Procurement	$7,349,447
Labor Escalation	$68,794
Material Escalation	$367,472
Performance & Payment Bond	$118,275
Insurance	$295,566
Sales Taxes	$598,061
Use Taxes	$0
Contingency	$1,194,630
Overhead (G&A)	$1,254,362
Profit	$2,508,724
TOTALS	**$29,862,228**

BONDS-INSURANCE-TAXES

DESCRIPTION	YES / NO
Liquidated Damages	
P&P Bond	
Letter of Credit	
Builders Risk	
Builders Risk Deducatable	
Professional Liability	
Longshoreman Insurance	
Sales Tax	
Use Tax	
Other Tax	
Performance Guarantees	
Noise Guarantees	
Other Guarantees	
Builders Risk Deductable Value	$0.00
Letter of Credit Percentage	0.00%
Sales Tax Percentage	7.75%
Use Tax Percentage	0.00%
Other Taxes	$0.00
Liquidated Damages Value	$0.00

SUMMARY SHEET

DETAIL TAB ID		DIRECT CRAFT MAN HOURS	SUPPORT LABOR MAN HOURS	STAFF MANHOURS	SUBCONTRACT MANHOURS	DIRECT LABOR $	MATERIAL $	CONSTRUCTION EQUIPMENT $	SUBCONTRACT $	OTHER $	GC'S $	SUPPORT LABOR $	STAFF $	TOTAL COST
	ESTIMATE DESCRIPTION	20,943	688	8,489	0	$1,372,599	$7,349,447	$498,904	$13,191,553	$9,470	$112,364	$36,340	$885,665	$23,456,342
1	SITEWORK	1,340	44	543	0	$87,704	$36,499	$31,912	$154,416	$0	$7,187	$2,324	$56,651	$376,694
2	SITE PIPING	784	26	318	0	$51,318	$300,500	$18,673	$19,057	$0	$4,205	$1,360	$33,148	$428,262
3	PRIMARY SLUDGE SCREENING	1,767	58	716	0	$115,599	$1,042,341	$42,092	$172,205	$0	$9,480	$3,066	$74,722	$1,459,506
4	THICKENING PROCESS AREA	3,653	120	1,481	0	$239,142	$1,873,701	$87,014	$183,354	$161	$19,597	$6,338	$154,469	$2,563,777
5	DEWATERING PROCESS AREA	7,362	242	2,984	0	$483,525	$1,875,123	$175,376	$1,384,207	$8,707	$39,499	$12,774	$311,332	$4,290,543
6	ANAEROBIC DIGESTER NO. 1 & NO. 2 UPGRADE	1,477	49	599	0	$96,686	$974,132	$35,180	$0	$0	$7,923	$2,563	$62,453	$1,178,937
7	RETREFIT EXISTING DIGESTER SLUDGE STORAGE TANK	4,561	150	1,849	0	$298,624	$1,247,150	$108,657	$1,462,572	$602	$24,472	$7,915	$192,890	$3,342,882
8	ELECTRICAL & INSTRUMENTATION	0	0	0	0	$0	$0	$0	$5,514,167	$0	$0	$0	$0	$5,514,167
9	DESIGN COST	0	0	0	0	$0	$0	$0	$4,301,575	$0	$0	$0	$0	$4,301,575

Attachment C
Rialto Solids Upgrades Project Cost Calculations (Veolia)

RIALTO SOLIDS UPGRADES PROJECT COST CALCULATIONS:

Category	Category	Cost	% of Fixed Project Cost	Explanation
Direct Project Cost	Contractor Guaranteed Maximum Price	$31,614,908	93.74%	This is the GMP Price from AECOM
Direct Project Cost	Construction Insurance (1.2%)	$379,379	1.12%	be incurred by Veolia. This is part of
Direct Veolia CPM Labor	Veolia CPM Labor	$1,730,250	5.13%	with the CPM team to deliver the
O&M Compliance, Risk Costs	O&M Risk+Labor+Compliance (2.5%)	$790,373	2.34%	Included in Markup
Veolia Corp. Overhead	Veolia Corp. Overhead	$926,400	2.75%	Included in Markup
Veolia Profit	Veolia Profit	$621,875	1.84%	Included in Markup
		$36,063,185		

			Market Value
Veolia Project Management Cost	$2,109,629	6.26%	4% to 8%
O&M Risk+Labor+Compliance (2.5%)	$790,373	2.34%	?
Veolia Corp. Overhead	$926,400	2.75%	
Veolia Profit	$621,875	1.84%	
	$4,448,277	13.19%	

File #: WS-25-0499, **Version:** 1, **Agenda #:**

For Water Subcommittee Meeting July 24, 2025

TO: Water Subcommittee Members

FROM: John Rossi, Interim Utilities Director

AUTHOR: Toyasha Sebbag, Assistant to the City Manager

Staff request that the Water Subcommittee provide feedback on the proposed Water and Wastewater/Sewer Rate Study Schedule.
(ACTION)

RECOMMENDATION

Staff recommends that the Water Subcommittee provide feedback on the proposed Water and Wastewater/Sewer Rate Study Schedule.

BACKGROUND

On July 23, 2024, the City Council/Rialto Utility Authority (RUA) Board adopted a one-year rate adjustment, effective January 1, 2025, for water and wastewater/sewer services. The one-year rate was based on a five-year financial projection. Staff was directed to return in 2025 with an updated rate analysis for Council/RUA Board reevaluation.

ANALYSIS/DISCUSSION

On April 7, 2025, staff released RFP No. 25-039 for Financial Consulting Services for a Water and Wastewater/Sewer Rate Analysis. Three proposals were received: Bartele, Raftelis, and Water Resources Economics.

An evaluation committee consisting of John Rossi, Interim Utilities Director; Toyasha Sebbag, Assistant to the City Manager; and Rod LeMond, CPA, RUA Financial Consultant, reviewed the proposals and ranked Water Resources Economics (WRE) as the most qualified firm to conduct the analysis.

A tentative schedule for implementation of a new rate structure, effective January 1, 2026, is as follows:

1. Kick-off Meeting with staff and RWS/Veolia - July 2, 2025
2. Presentation to Water Subcommittee - August 28, 2025
3. Presentation to Utility Commission - September 16, 2025
4. City Council Presentation (includes Technical Memorandum) - September 23, 2025
5. Proposition 218 Mailing - September 26, 2025
6. Public Hearing - November 18, 2025
7. Rates Effective - January 1, 2026

To meet the above schedule, WRE recommends a two-phase approach: Phase I - Update Financial Plan Only; Phase II - Cost of Service & Rate Design.
Phase I will develop an updated financial plan to ensure revenue sufficiency and Concession Agreement coverage requirements. The resulting rate adjustments would be applied to the existing rate structure and implemented by January 1, 2026.

Phase II, to follow within approximately one year, would address cost-of-service refinements and rate design updates.

Staff is requesting feedback from the Water Subcommittee on this two-phase approach for the Water and Wastewater/Sewer Rate Analysis.

ENVIRONMENTAL IMPACT

The proposed action is not a “Project” as defined by the California Environmental Quality Act (CEQA). Pursuant to Section 15378(a), a “Project” means the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment. According to Section 15378(b), a Project does not include: (5) Organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment.

GENERAL PLAN CONSISTENCY

Approval of the proposed action also complies with the following City of Rialto Guiding Principles, General Plan Goals and Policies: *Our City government will lead by example, and will operate in an open, transparent, and responsive manner that meets the needs of the citizens and is a good place to do business.*

LEGAL REVIEW

The City Attorney has reviewed the staff report.

FINANCIAL IMPACT

Operating Budget Impact
Funds are available in the Concession Agreement Contract Services Account.

Capital Improvement Budget Impact
There is no impact on the Capital Improvement Budget.

ATTACHMENT(S)

Water Resources Economics (WRE) Memo Re. Options for Future Water and Wastewater Rate Adoption

File #: WS-25-0502, **Version:** 1, **Agenda #:**

For Water Subcommittee Meeting July 24, 2025

TO: Water Subcommittee Members

APPROVAL: John Rossi, Interim Utilities Director

AUTHOR: Toyasha Sebbag, Assistant to the City Manager

Staff Request that the Water Subcommittee Provide Feedback on a Contract Amendment with Soto Resources in the Amount of $62,100 for the Preparation of the Cal OES Hazard Mitigation Grant Program (HMGP).
(ACTION)

RECOMMENDATION

Staff recommends that the Water Subcommittee provide feedback on a contract amendment with Soto Resources in the amount of $62,100 for the preparation of the Cal OES Hazard Mitigation Grant Program (HMGP).

BACKGROUND

On May 13, 2025, the City Council/Rialto Utility Authority (RUA) Board authorized staff to submit a Notice of Interest (NOI) and full application to the California Governor's Office of Emergency Services (Cal OES) for up to $7 million in federal funding through the Hazard Mitigation Grant Program (HMGP) to support the Resilient Power Infrastructure for Critical Water Facilities Project.

On June 16, 2025, staff was notified by Cal OES that RUA's NOI was accepted and deemed an eligible HMGP activity. As a result, the City/RUA was formally invited to submit a full sub-application for funding consideration by September 15, 2025, deadline.

ANALYSIS/DISCUSSION

Staff requested a proposal from Soto Resources, RUA's grant consultant who assisted with the preparation of the NOI and has secured over $21 million in funding for RUA over the past five years, to prepare the full sub-application.

The proposed project for the sub-application of the Resilient Power Infrastructure for Critical Water Facilities Project would install permanent backup generators at seven critical water system sites. This would ensure uninterrupted potable water service during emergency power outages, extended Public Safety Power Shutoff (PSPS) events, and wildfire-related disruptions. The targeted locations are:

1. City Well 2
2. Chino Well 2
3. Rialto Well 3
4. Booster Pump 1 Treatment Plant
5. Cactus Reservoir Booster Pump 5

6. City Well 4a
7. City 4a Booster 3a-1

The full HMGP application process is complex and may take up to three years before grant funds are obligated. Projects selected for funding will be subject to a 48-month period of performance, including construction and closeout.

Soto Resources would coordinate with staff and technical consultants to complete the sub-application, which includes:

- A detailed project description and scope of work
- Cost estimates for each of the seven generator sites
- Environmental and Historic Preservation (EHP) documentation
- A Benefit-Cost Analysis (BCA) demonstrating cost-effectiveness
- Letters of commitment for local match and long-term maintenance

The total estimated project cost is approximately $9.9 million (in 2030 dollars). The HMGP program will cover up to 75% of eligible project costs. RUA is responsible for the 25% local match, which is anticipated to be funded through state grants or existing capital improvement funds.

Staff is seeking feedback from the Water Subcommittee on a proposed contract amendment with Soto Resources in the amount of $62,100 to prepare and submit the full sub-application by the September 15, 2025, deadline.

ENVIRONMENTAL IMPACT

The proposed action is not a “Project” as defined by the California Environmental Quality Act (CEQA). Pursuant to Section 15378(a), a “Project” means the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment. According to Section 15378(b), a Project does not include: (5) Organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment.

GENERAL PLAN CONSISTENCY

Approval of the proposed action also complies with the following City of Rialto Guiding Principles, General Plan Goals and Policies: *Our City government will lead by example, and will operate in an open, transparent, and responsive manner that meets the needs of the citizens and is a good place to do business.*

LEGAL REVIEW

The City Attorney has reviewed the staff report.

FINANCIAL IMPACT

Operating Budget Impact

Funds are available in the Concession Agreement Contract Services Account.

Capital Improvement Budget Impact

There is no impact on the Capital Improvement Budget.

ATTACHMENT(S)

Soto Resources Proposal for RUA Cal OES Sub-application

Soto Resources
Professional Funding Services
(949) 370-6079
Joey@sotoresources.com

July 1, 2025

John Rossi
City of Rialto Interim Utilities Director
150 South Palm Avenue
Rialto, CA 92376
jrossi@rialtoca.gov

Subject: Proposal to Provide Grant Assistance – Preparation of Cal OES Hazard Mitigation Grant Program Subapplication for City of Rialto's Resilient Power Infrastructure for Critical Water Facilities Project to the California Office of Emergency Services (Cal OES) for the Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant Program (HMGP)

Dear John:

It has been a pleasure working with you and the City of Rialto (City) team to provide grant assistance services for the City's projects over the past few years. The City is an important client of Soto Resources, and together, we have secured nearly $21 million in grant funding for the City's projects. Per our meeting with City staff on 6/30/25, this proposal is for preparing a subapplication for the City's proposed Resilient Power Infrastructure for Critical Water Facilities Project (Project). Soto Resources previously prepared and submitted the Notice of Interest (NOI) for HMGP funding in May 2025. Subsequently Cal OES invited the City to submit a full subapplication after review of the NOI. The subapplication is due to Cal OES by September 15, 2025. We understand there may also be a Request for Information (RFI) period if Cal OES has questions on the subapplication, and then select applications are advanced to FEMA by April 8, 2026 for consideration. As a reminder, if the City is awarded, the timeframe for receiving a funding agreement is anticipated to be in **2028**. Below is the anticipated Soto Resources Team's scope of work and fee schedule to prepare the subapplication based on our meetings and notes to date.

Project Understanding

The City is seeking funding for the installation of permanent backup generators at wells and booster pump stations. The following is a list of 7 critical generator locations and the horsepower motor (HP) needed for these sites, which the team believes would strengthen the Rialto water service area to ensure water supply during emergency conditions.

1. City Well 2	450 HP Well Motor
2. Chino Well 2	350 HP Well Motor
3. Rialto Well 3	350 HP Well Motor
4. Booster BP 1 Treatment Plant	350 HP Booster Motor
5. Cactus Reservoir Booster Pump 5	350 HP Booster Motor
6. City Well 4a	400 HP Well Motor
7. City 4a Booster 3a-1	400 HP Booster Motor

It is estimated that the total Project is approximately $9,916,000.

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FEMA Hazard Mitigation Grant Program Understanding

- Eligible Projects must have a FEMA-approved and locally adopted Local Hazard Mitigation Plan (LHMP) or a Multi-Jurisdictional Hazard Mitigation Plan at award.
- Examples of eligible Projects: include critical facility generators.
- 25% minimum non-federal match required.
- May take 3 years from the time of application to receive a grant agreement.
- 48-month maximum Period of Performance after agreement, including closeout.
- Projects must be cost-effective using FEMA's Benefit Cost Analysis (BCA) Toolkit resulting in a benefit cost ratio of 1.0 or greater.
- FEMA won't approve a project under HMGP if the project is more appropriately funded under another funding program (i.e., USBR, USFWS, etc.). Make sure FEMA is the most appropriate funding authority before applying.
- Funding Priorities: LHMP updates, shovel-ready projects with a high level of design that can begin construction within 90 days of FEMA approval, whole community risk reduction/large critical infrastructure wildfire projects or other hazard types, planning related activities, 5% Initiative projects.

Scope

The scope of work includes grant writing assistance to prepare and upload one subapplication for seven (7) proposed generator sites to the Engage Cal OES HMGP Portal. It is understood that consultants can contribute information on the Portal, but the Responsible Representative on file with Cal OES for each subapplication must submit (hit the submit button).

Cal OES has indicated that pre-award costs (including the development of the subapplication) are eligible for reimbursement upon award if procurements adhere to federal policies. This includes competitively procuring any consultant/contractor support used to develop the subapplication or plan a project. If Soto Resources, Dopudja and Wells, and other potential consultants were/are selected through a competitive procurement process by the City, we would be able to build in the cost of developing the subapplication into the project budgets. The City's consultant procurement process should be clarified for our understanding to help prepare the project budget.

Subapplications are **due to CalOES by September 15, 2025** through the Engage Cal OES Portal. Cal OES will review all subapplications and submit projects to FEMA in accordance with the State's priorities for further review. Cal OES will retain eligible subapplications that are not initially selected for submission to FEMA for future consideration when funding becomes available. FEMA will award projects after completing programmatic and Environmental and Historic Preservation (EHP) reviews.

Soto Resources will work closely with City staff to complete the tasks identified below.

Task 1. Prepare Subapplication Framework
Prepare a subapplication framework per Cal OES guidance and resources. Email/participate in webinars with Cal OES to discuss questions identified in our Go/No-Go meeting held with City staff on 6/30/25. Assumes participation in 4 webinars 1-2 hours in duration.

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Joey@sotoresources.com

Task 2. Kickoff Meeting, Data Collection, and Weekly Team Meetings

a) Hold kickoff meeting with City staff to discuss framework and review required project information.
b) Review existing Project information.
c) Assign tasks to project team, including the City, Veolia, Dopudja and Wells, or other entities/consultant to obtain required information. Coordinate with team on file management. The City, as the applicant, will be responsible for providing all required information.
d) Communication and coordination with City and Cal OES staff on subapplication details and backup documentation.
e) Assumes up to 10 weekly team meetings to develop subapplication information.
f) Coordinate with City staff to develop the following:
    - **General Criteria**
    - **Scope of Work**
        - Project Information
        - Project Alternatives
        - Problem Statement
        - Solution Description
        - HMGP Plan Information
        - Scope of Work Documentation
    - **Work Schedule**
        - template available here: https://www.caloes.ca.gov/wp-content/uploads/HMGP-2023-Project-Schedule-Gantt-Chart-Template-ADA-7.31.23.xlsx
        - Supporting Documents for each of the generator sites, including design documents, maps, etc.
    - **Generators**
        - HMGP Generators Project and Documents: Develop project maps, FEMA FIRMette, and annotated aerial photos and photos for each of the seven (7) project sites.
    - **Project Site List – Generators**
        - Site Inventory: Coordinate with Project team to complete responses to the following questions for each of the seven (7) project sites.

            - Site Address
            - Latitude, Longitude
            - Date of Construction
            - Age of Structure (year built)
            - Is this a critical facility as identified in your hazard mitigation plan?
            - Provide the address(es) of the property(ies) where the proposed generator(s) will be installed.
            - Briefly describe the proposed size and specifications of the generator. i.e., KW, single or multi phase, gas, diesel, or propane fueled, etc.
            - Describe the method, materials, and labor to provide connectivity to the structure's electrical system (Transfer Switch, etc.)? Include material and labor costs in the cost estimate.

- Describe how the generator and fuel tank will be mounted. Include design specs in the description.
- Will security fencing and/or impact barriers be installed around the generator?
- Describe the type of fuel the generator will use, size of the tank, and associated piping.
- Identify the useful life of the generator(s) and provide the estimated value of annual maintenance costs. *Reference FEMA Generator Job Aid, 2015*
- Identify any actual or estimated damages caused by power outages at the facility or to its operational/electronic systems. *Reference FEMA Generator Job Aid, 2015*
- Is the fuel tank to be installed above or below ground?
- Describe the spill prevention and retention measures that will be employed in the generator design to prevent any fuel spill due to a possible leak? (i.e., double walled tank, located within an impermeable berm, etc.)
- How often will maintenance/testing be conducted? (Monthly, Quarterly, Semi-Annual, Annual)
- What spill cleanup equipment will be on site?
- Is the site location within the 100-year or 500-year flood plain?
- Provide a description of how the generator will be elevated.
- Provide a description how this elevated support system will comply with seismic and wind building code requirements?
- Identify and describe distance to any surface water bodies, including wetlands, near the project site within about 200 feet.
- Will the installation affect, or is it near, a structure 48 year old or older?
- Will installation cause ground disturbance? (Yes or No) Yes?
- If Yes, describe the ground disturbance including square footage and depth

    - Project Site Documents

- **Project Cost Estimate**
    - Reference the following Cost Share Guide: Hazard Mitigation Assistance Cost Share Guide
    - Cost Review
    - Cost Review Documentation
- **Maintenance and Reporting Commitment Letter**
    - Annual Maintenance Costs and Tasks
    - Responsible Representative Confirmation
    - Maintenance and Reporting Commitment Supporting Documents
- **Match Commitment Letter**
- **Grant Management Cost Estimate**
- **Environmental And Historic Preservation (EHP)**
    - Answer subapplication questions related to environmental and cultural considerations
    - Complete and upload the EHP Checklist document linked here: HMGP-EHP-Checklist.docx

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Additional HMGP Subapplication Reference Documents

- HMGP-Subapplication-Subapplicant-User-Guide-V4-.docx
- Eligibility of Generators as a Fundable Project by the HMGP and PDM Program

Task 2.1 Prepare Benefit Cost Analysis (BCA)

The BCA is a required component of the Subapplication package. As requested, this proposal includes cost for 2 scenarios: Soto Resources assisting with the BCA and not assisting with BCA. Note that Soto Resources has experience with the FEMA HMGP subapplications, but does not have experience preparing the BCA. Previously, our clients have retained engineering consultants to perform the required BCA for each project site in the subapplication.

Soto Resources would coordinate with the team to prepare one BCA that includes the seven (7) generator project sites, including:

- Download the FEMA BCA Toolkit.
- Download and follow the FEMA Cost -Analysis tool for generator projects -The following is a link: FEMA'S BENEFIT COST-ANALYSIS TOOL FOR GENERATORS
- Develop Benefits
- Develop BCA
- Prepare and Compile Benefit Cost Analysis Documentation - Cal OES and FEMA require subapplicants to provide documentation for all data that is used in a BCA.
    - BCA Methodology Report
    - BCA Supporting Documentation (i.e., cost estimates, utility provider and City documentation for power loss events, and documentation for people served by each generator site).
    - FEMA BCA Toolkit Excel File

Soto Resources proposes preparing a BCA for 1 generator project site, then meeting with Cal OES to review/revise the BCA. Based on completion of the initial BCA with 1 project site, the remaining project sites would be completed following the same approach.

Task 3. Draft Subapplication - Continue to obtain necessary project information to complete the Draft Subapplication, including maps/figures, forms, and other required components. Prepare one Draft Subapplication for the City's review and incorporate the City's review and comments. Assumes 2-3 meetings with Cal OES to review the Draft BCA and Subapplication.

Task 4. Final Subapplication - Receive and review the City's comments from the Draft Subapplication. Prepare one Final Subapplication incorporating comments/edits, as appropriate. Provide Final Subapplication to the City for approval in Word Format and populate the Cal OES Engage HMGP Subapplication Portal. City Staff will hit the submit button on the portal once ready.

The City will be responsible for providing all information necessary to complete the Subapplication. Soto Resources will work closely with the City to obtain and submit information required. Additional work beyond the proposed subapplication submittal,

including responses to RFIs, will be proposed and performed separately from this proposal.

Schedule & Fee

The Cal OES Hazard Mitigation Grant Program accepts subapplications on an ongoing basis, until **September 15, 2025.** The table below shows the Soto Resources Team staff, bill rate, and estimated hours required to perform the proposed services. The services will be performed on an hourly basis, for a total cost not to exceed $42,700 or $62,100, depending on the scope of work selected. Invoices will be submitted on a monthly basis.

Rialto Cal OES Subapplication - Seven Projects	**Joey Soto, M.S. Principal/ Project Manager**	**Jennifer Nevius, P.E. Senior Grant Writer***	**FY Total**	**FY Total**
	$205/hr.	**$185/hr.**	**Hours**	**Budget**
Task 1. Prepare Framework	10	10	*20*	*$ 3,900*
Task 2. Kickoff Meeting, Data Collection, & Weekly Meetings	40	50	*90*	*$ 17,450*
Task 2.1 Prepare BCA	*45*	*55*	*100*	*$ 19,400*
Task 3. Draft Subapplication	30	35	*65*	*$ 12,625*
Task 4. Final Subapplication	20	25	*45*	*$ 8,725*
Total (with BCA)	**145**	**175**	**320**	**$ 62,100**
Total (without BCA)	**100**	**120**	**220**	**$ 42,700**

Notes: Other direct costs such as copying, reproduction, delivery, postage, mileage (rates allowed by current IRS guidelines), are not included in the fee estimate and will be billed separately if incurred. Soto Resources reserves the right to adjust its hourly rates at the beginning of the calendar year for all ongoing contracts.

Please contact me with any questions. I look forward to continuing our funding success!

Sincerely,

Joey Soto

Ms. Joey Soto, M.S.
Principal
Soto Resources
30767 Gateway Place #505
Rancho Mission Viejo, CA 92694

City of Rialto

Legislation Text

File #: WS-25-0483, **Version:** 1, **Agenda #:**

For Water Subcommittee Meeting July 15, 2025

TO: Water Subcommittee Members

APPROVAL: John Rossi, Interim Utilities Director

FROM:

Utilities Director Update:

1. Future Extraterritorial Agreements:
    a. 19010 Valley Blvd., Bloomington, CA - Single Family Residence
    b. 9330 S. Linden Ave., Bloomington, CA - Single Family Residence
    c. 10701 Cedar Ave., Bloomington, CA - Mobile Home Park

2. Update on Electric Rate Savings Analysis.

3. Update on Total Maximum Daily Limit (TMDL) Water Sampling at the Rialto Wastewater Treatment Plant.

4. Veolia's Monthly Operations Reports (MOR): July 2025 (reporting period May 2025)

Veolia/RWS
Monthly Operations Report
July 2025

Reporting period May 2025

RIALTO
CUSTOMER SERVICE & REVENUE
MONTHLY OPERATIONS REPORT

Reporting Period:

May 2025

Prepared for: Rialto Water Services

Prepared by: Veolia Water West Operating Services

RIALTO WATER

MONTHLY OPERATIONS REPORT

Reporting Period:

May 2025

Prepared for: Rialto Water Services

Prepared by: Veolia Water West Operating Services

RIALTO WATER

OPERATIONS AND MAINTENANCE REPORT

Contents

RIALTO WATER

MONTHLY OPERATIONS REPORT

I. EXECUTIVE SUMMARY

Highlights of this month's Water O&M report include the following:

- The water distribution network achieved compliance with all permit requirements.
- No sample anomalies that require secondary sampling.
- No significant issues with water availability. The purchasing of water remained consistent and daily equalization tanks levels remained at anticipated volume for customer availability.
- The Preventative Maintenance Program, as well as Valve Exercising, continues to identify areas of focus for our Routine Repair and Replacement.

A. Water Production Totals

Total water delivered into the Rialto system this month was 950.62 acre-feet. 746.36 acre-feet was delivered into the system from the groundwater wells (City 4A production is included in the well total). 93.56 acre-feet was delivered via the BLF transmission system (City 4A production has been deducted). 110.70 acre-feet came from the OPRTP.

MAY 2025 DAILY PRODUCTION TOTALS IN ACRE FEET											
							Delivered Via BLF				
								Purchased			
DATE	Chino 2	City 2	Rialto 3	Rialto 5	Miro 3	EW-1	City 4A	BOOSTER 6-9	Cactus [1]	OPRTP [2]	TOTAL[3]
5/1/25	5.23	1.53	4.80	0.00	0.00	5.96	3.25	2.66	6.44	4.10	**30.71**
5/2/25	5.39	0.00	4.80	0.00	0.00	5.98	4.29	2.80	9.81	4.36	**33.14**
5/3/25	5.12	0.00	4.52	0.00	0.00	5.98	8.67	0.00	6.94	4.15	**26.71**
5/4/25	5.92	0.00	4.96	0.00	0.00	6.10	3.04	3.17	3.21	4.97	**28.33**
5/5/25	5.51	0.00	5.17	0.00	0.00	6.20	2.41	0.53	3.86	3.24	**24.50**
5/6/25	4.87	0.00	6.24	0.00	0.00	7.20	4.20	2.96	3.93	3.14	**28.34**
5/7/25	6.17	0.00	3.49	0.00	0.00	5.56	2.50	0.51	4.64	4.73	**25.10**
5/8/25	3.81	0.00	3.15	0.00	0.00	5.35	0.87	0.00	9.26	3.79	**25.35**
5/9/25	5.21	0.00	5.76	0.00	0.00	5.80	8.95	2.80	5.95	4.17	**29.69**
5/10/25	6.20	0.00	5.03	0.00	0.00	6.60	9.40	2.25	12.16	3.87	**36.10**
5/11/25	4.34	0.00	4.96	0.00	0.00	5.66	9.83	5.16	4.91	5.11	**30.14**
5/12/25	6.34	0.00	4.71	0.00	0.00	6.23	7.17	4.77	4.73	3.18	**29.95**
5/13/25	5.12	0.00	5.69	0.00	0.00	5.72	10.83	9.39	4.38	4.12	**34.43**
5/14/25	5.00	0.63	5.39	0.00	0.00	5.82	7.18	3.28	2.07	4.13	**26.33**
5/15/25	4.41	6.12	5.42	0.00	0.00	6.48	0.00	0.11	7.85	3.90	**34.29**
5/16/25	0.00	8.36	4.66	0.00	3.56	0.98	0.00	0.00	4.59	4.52	**26.67**
5/17/25	0.00	8.18	5.46	0.00	5.52	0.00	3.55	0.00	4.25	4.07	**27.48**
5/18/25	0.11	12.50	6.04	0.00	5.93	0.00	0.00	0.00	4.96	4.66	**34.20**
5/19/25	0.00	7.21	5.99	0.00	5.51	0.00	2.97	0.00	6.08	3.21	**28.01**
5/20/25	0.00	10.30	6.45	0.00	5.94	0.00	7.04	3.49	5.12	4.32	**35.62**
5/21/25	0.00	9.86	6.75	0.00	6.54	0.00	2.91	0.71	6.70	3.68	**34.24**
5/22/25	0.00	8.75	6.40	0.00	6.69	0.00	4.05	0.00	7.90	0.00	**29.75**
5/23/25	4.22	9.25	5.92	0.00	6.78	0.00	9.03	3.63	4.64	0.54	**34.98**
5/24/25	4.98	2.91	6.54	0.00	6.79	0.00	3.86	0.00	8.01	3.53	**32.77**
5/25/25	5.30	7.10	5.46	0.00	3.23	0.00	3.34	0.00	4.94	5.14	**31.17**
5/26/25	5.62	0.00	7.00	0.00	6.79	0.00	7.68	5.83	4.41	3.99	**33.64**
5/27/25	6.31	0.00	5.33	0.00	4.47	0.00	7.62	6.84	5.69	2.90	**31.54**
5/28/25	4.43	0.00	6.24	0.00	5.16	0.00	9.71	7.41	4.61	3.68	**31.54**
5/29/25	5.14	0.00	6.45	0.00	6.23	0.00	8.67	7.12	5.76	2.52	**33.22**
5/30/25	5.42	0.00	6.68	0.00	6.74	0.00	10.15	8.94	2.30	2.98	**33.06**
5/31/25	0.00	8.40	5.74	0.00	5.82	0.00	7.36	0.00	9.64	0.00	**29.60**
TOTAL	**120.17**	**101.10**	**171.21**	**0.00**	**91.72**	**91.63**	**170.53**	**84.36**	**179.74**	**110.70**	**950.62**
MIN	**0.00**	**0.00**	**3.15**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.07**	**0.00**	**24.50**
MAX	**6.34**	**12.50**	**7.00**	**0.00**	**6.79**	**7.20**	**10.83**	**9.39**	**12.16**	**5.14**	**36.10**
AVE	**3.88**	**3.26**	**5.52**	**0.00**	**2.96**	**2.96**	**5.50**	**2.72**	**5.80**	**3.57**	**30.67**

[1] Measured at point of connection at Cactus Reservoir site including production from City 4A. Amount may vary compared to billing.

[2] Measured at point of connection at Cedar Reservoir site. Amount may vary as compared to billing.

[3] City 4A is not included in total. It has been accounted for in the Purchased total.

MAY 2025 DAILY BOOSTER TOTALS IN ACRE FEET								
DATE	**Booster 1**	**Booster 2**	**Booster 3**	**Booster 4**	**Booster 5**	**Booster 6-9**	**Booster 10**	**Booster 11**
5/1/25	0.00	0.00	1.15	0.00	0.00	2.66	0.00	0.00
5/2/25	0.00	0.00	0.00	0.00	2.03	2.80	0.00	0.00
5/3/25	0.00	0.00	0.00	0.00	5.40	0.00	0.00	0.00
5/4/25	0.00	0.00	1.75	0.00	1.82	3.17	0.00	0.00
5/5/25	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00
5/6/25	0.00	0.00	4.20	0.00	0.00	2.96	0.00	0.00
5/7/25	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00
5/8/25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/9/25	0.00	0.00	0.00	0.00	4.67	2.80	0.00	0.00
5/10/25	0.00	0.00	0.00	0.00	0.92	2.25	0.00	0.00
5/11/25	0.00	0.00	2.56	0.00	7.06	5.16	0.00	0.00
5/12/25	0.00	0.00	2.61	0.00	0.00	4.77	0.00	0.00
5/13/25	0.00	0.00	5.95	0.00	0.00	9.39	0.00	0.00
5/14/25	0.00	0.00	3.07	0.00	0.00	3.28	0.00	0.00
5/15/25	0.00	0.00	2.71	0.00	0.00	0.11	0.00	0.00
5/16/25	0.00	0.00	1.07	0.00	0.18	0.00	0.00	0.00
5/17/25	0.00	0.00	4.46	0.00	0.00	0.00	0.00	0.00
5/18/25	0.00	0.00	3.75	0.00	0.00	0.00	0.00	0.00
5/19/25	0.00	0.00	5.56	0.00	0.00	0.00	0.00	0.00
5/20/25	0.00	0.00	4.15	0.00	0.00	3.49	0.00	0.00
5/21/25	0.00	0.00	2.48	0.00	0.00	0.71	0.00	0.00
5/22/25	0.00	0.00	5.40	0.00	0.00	0.00	0.00	0.00
5/23/25	0.00	0.00	10.61	0.00	2.34	3.63	0.00	0.00
5/24/25	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
5/25/25	0.00	0.00	2.61	0.00	4.80	0.00	0.00	0.00
5/26/25	0.00	0.00	5.71	0.00	0.00	5.83	0.00	0.00
5/27/25	0.00	0.00	3.98	0.00	0.00	6.84	0.00	0.00
5/28/25	0.00	0.00	7.70	0.00	0.00	7.41	0.00	0.00
5/29/25	0.00	0.00	7.64	0.00	0.00	7.12	0.00	0.00
5/30/25	0.00	0.00	7.09	0.00	0.00	8.94	0.00	0.00
5/31/25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	**0.00**	**0.00**	**96.30**	**0.00**	**29.22**	**84.36**	**0.00**	**0.00**
MIN	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
MAX	**0.00**	**0.00**	**10.61**	**0.00**	**7.06**	**9.39**	**0.00**	**0.00**
AVE	**0.00**	**0.00**	**3.11**	**0.00**	**0.94**	**2.72**	**0.00**	**0.00**

B. Static Water Levels

All City of Rialto wells are sounded each month, both active and inactive well sites. Depth-to-water is measured from the well head to the static water surface. Increases in depth-to-water represent a decrease in static water level.

Depth to Water													
Wells Depth to Pump	**Historical Maximum Depth to Water**	**Jun**	**Jul**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**
Chino # 1 (580 ft) **In-active well**	**429'**	414'	414'	412'	411'	411'	411'	410'	412'	414'	414'	413'	413'
Chino # 2 (550 ft)	**369'**	347'	352'	347'	347'	343'	340'	342'	341'	335'	338'	335'	337'
City # 1 (260 ft)	**392'**	158'	151'	150'	247'	247'	251'	121'	126'	121'	122'	119'	117'
City # 2 (480 ft)	**402'**	164'	164'	171'	210'	137'	139'	147'	146'	128'	130'	128'	122'
City # 3 (525 ft) **Out of Service**	**505'**	423'	418	417'	416'	416'	417'	414'	414'	415'	416'	416'	414'
City # 4A (528 ft)	**406'**	374'	380'	379'	380'	380'	380'	381'	374'	377'	375'	373'	362'
City # 5 (385 ft) **In-active well**	**364'**	335'	333'	334'	332'	322'	320'	318'	318'	321'	318'	318'	316'
Rialto # 1 (650 ft) **In-active well**	**588'**	571'	571'	571'	571'	553'	552'	561'	555'	571'	569'	565'	563'
Rialto # 2 (550 ft) **In-active well**	**502'**	501'	500'	501'	502'	501'	501'	499'	501'	496'	495'	502'	496'
Rialto # 3 (509 ft)	**478'**	474'	477'	477'	473'	476'	473'	472'	473'	473'	472'	472'	470'
Rialto # 4 (450 ft) **In-active well**	**418'**	415'	416'	415'	418'	418'	414'	413'	414'	415'	416'	415'	415'
Rialto # 5 (560 ft)	**386'**	386'	386'	385'	384'	384'	384'	385'	385'	384'	384'	386'	386'
Rialto Well # 7 **In-active well**	**362'**	361'	361'	362'	362'	362'	361'	362'	360'	360'	359'	353'	356'
Miro # 3 (563 ft)	**492'**	487'	489'	487'	485'	485'	484'	484'	484'	484'	484'	483'	483'
EW-1 (780 ft)	**476'**	473'	474'	475'	474'	473'	475'	475'	474'	472'	475'	475'	474'

II. REGULATORY

All State of California and public health agency regulatory requirements were met.

A. Regulatory Submittals

- Monthly Summary of Distribution System Coliform Monitoring
- NPDES Discharge Letter
- Conservation SAFER Report

Sample Test Result Standards			
Type of Sampling	**Units of Measure**	**Detectable Limit for Reporting**	**Maximum Contaminant Level**
Total Coliform	A	--	--
E. Coli	A	--	--
Nitrate as N	mg/L	0.20	10
Perchlorate (CLO_4)	µg/L	1.0	6.0
Total Dissolved Solids	mg/L	--	500
Arsenic	µg/L	2.0	10
Perfluorooctanoic (PFOA)	ng/L	2.0	4
Perfluorooctanesulfonic (PFOS)	ng/L	2.0	4
P= Present **A= Absent** **mg/L = parts per million** **µg/L = parts per billion** **ng/L = parts per trillion**			

Sample Date 05/14/2025		Sample Site Location Results								
Type of Sampling	**Chino 2**	**City 2**	**City 4A**	**Rialto 3**	**Rialto 5**	**Miro 3**	**EW-1**	**BLF Cactus**	**BLF 6-9**	**OPRT P**
Total Coliform	A	A	A	A	A	A	A	A	A	A
E. Coli	A	A	A	A	A	A	A	A	A	A
Nitrate as N	2.9									
Perchlorate (CLO_4)	1.4*			5.8*	<1.0	12*	140*			
Total Dissolved Solids	230	170	260	200	180	220	220	300	300	180
Arsenic		5.0								
Perfluorooctanoic (PFOA)	<2.0				5.9					
Perfluorooctanesulfonic (PFOS)	<2.0				<2.0					

***Sample is from the well head so it is before disinfection & treatment. Treatment is performed before it goes into the distribution system. Water going into the distribution system is <1.0 (non-detect).**

B. Sample Site Location Results

Rialto Distribution Sample Results						
May 2025						
Sample Location	Free Cl Res (Field)	Total Coliform	E. Coli	Apparent Color	Odor Threshold	Turbidity
CYCLE 1 - 5/07/25	**mg/l**	**P/A**	**P/A**	**Color Units**	**TON**	**NTU**
335 W. Rialto	1.40	A	A			
1228 W. Merrill	1.10	A	A			
256 N. Fillmore	1.00	A	A			
987 W. Grove	1.10	A	A			
978 N. Driftwood	1.00	A	A			
1451 N. Linden	1.00	A	A			
469 W. Jackson	1.10	A	A			
935 E. Mariposa	1.10	A	A			
1000 N. Joyce	1.20	A	A			
766 N. Chestnut	1.10	A	A			
149 W. Victoria	1.00	A	A			
313 E. McKinley	1.10	A	A			
609 E. South	1.10	A	A			
273 E. Alru	1.30	A	A			
1161 S. Lilac	1.10	A	A			
101 E. Valley	1.00	A	A			
CYCLE 2 - 5/13/25	**mg/l**	**P/A**	**P/A**	**Color Units**	**TON**	**NTU**
210 N. Park	1.00	P	A			
101 S. Larch	1.00	A	A			
320 N. Wisteria	1.10	A	A			
861 W. Grove	1.20	A	A			
1168 N. Glenwood	1.00	A	A			
1320 N. Fitzgerald	1.00	A	A			
860 N. Willow	1.20	A	A			
209 E. Cornell	1.10	A	A			
643 E. Margarita	1.20	A	A			
1170 N. Terrace Rd.	1.00	A	A			
681 E. Erwin	1.00	A	A			
402 E. Merrill	1.00	A	A			
261 W. Wilson	1.30	A	A			
532 S. Iris	1.20	A	A			
281 W. Hawthorne	1.20	A	A			
379 W. Valley	1.20	A	A			

Rialto Distribution Sample Results						
May 2025						
Sample Location	**Free Cl Res (Field)**	**Total Coliform**	**E. Coli**	**Apparent Color**	**Odor Threshold**	**Turbidity**
CYCLE 3 - 5/20/25	**mg/l**	**P/A**	**P/A**	**Color Units**	**TON**	**NTU**
236 N. Willow	1.10	A	A	<3.0	1	<0.10
775 E. Foothill	1.10	A	A	<3.0	1	<0.10
878 N. Primrose	1.10	A	A	<3.0	1	<0.10
369 E. Van Koevering	1.10	A	A	<3.0	1	<0.10
274 W. Valencia	1.10	A	A	<3.0	1	<0.10
1566 N. Fillmore	1.10	A	A	<3.0	1	<0.10
932 N. Idyllwild	1.00	A	A	<3.0	1	<0.10
644 N. Smoketree	1.00	A	A	<3.0	1	<0.10
605 W. Rosewood	1.00	A	A	<3.0	1	<0.10
1189 W. Second	1.10	A	A	<3.0	1	<0.10
775 W. Rialto	1.00	A	A	<3.0	1	<0.10
211 E. Wilson	1.10	A	A	<3.0	1	<0.10
595 E. Huff	1.10	A	A	<3.0	1	<0.10
1005 S. Riverside	1.30	A	A	<3.0	1	<0.10
794 S. Verde	1.10	A	A	<3.0	1	0.21
1055 W. Bloomington	1.30	A	A	<3.0	1	0.31
CYCLE 4 - 5/28/25	**mg/l**	**P/A**	**P/A**	**Color Units**	**TON**	**NTU**
375 S. Cactus	1.40	A	A			
101 S. Linden	1.70	A	A			
234 N. Larch	1.20	A	A			
575 N. Driftwood	1.30	A	A			
1355 W. Shamrock	1.10	A	A			
992 N. Yucca	1.20	A	A			
481 W. Cornell	1.00	A	A			
158. E. Shamrock	1.20	A	A			
749 E. Holly	1.10	A	A			
545 E. Victoria	1.30	A	A			
200 N. Sycamore	1.10	A	A			
407 E. Allen	1.30	A	A			
399 E. Montrose	1.00	A	A			
856 S. Orange	1.40	A	A			
911 S. Cactus	1.30	A	A			
220 W. Valley	1.30	A	A			
P/A + Present or Absent						

C. Violations

No violations were received during this reporting period.

D. Source Water Total Dissolved Solids (TDS)

Veolia has a goal of maintaining an acceptable blended TDS level between all its sources. This goal is achieved by shifting production to or from the lowest TDS wells or purchased low TDS water while adhering to the overall water supply strategy and meeting system demands. The TDS was 223 mg/L for the month of May as compared to 218 mg/L in April. The TDS levels are below the secondary maximum contaminant level requirements.

III. HEALTH AND SAFETY

A. Monthly Safety Program Overview

Category	Monthly Statistic
Safety Training Topics	Meter Installation SOP Safety Dashboard Report
Lost Time Incidents, count*	0
Recordable Incidents, count	0
Near Miss Incidents, count	1
Vehicle Incidents, count	0

*A lost time incident has not occurred in the past 4248 days.

IV. CHEMICAL USE

Sodium hypochlorite is the only chemical added to the water system. A total of 2214 gallons of sodium hypochlorite was used in May as compared to 2004 gallons used in April.

V. ELECTRICAL USE

Southern California Edison (SCE) has not provided all of the data for May 2025. We will provide the data as it is received, thus will include yearly usage received to date.

	SCE	kWh
Year	Month	Billed Usage
2024	June	629,344
2024	July	550,202
2024	August	650,431
2024	September	562,739
2024	October	529,208
2024	November	266,378
2024	December	247,546
2025	January	427,546
2025	February	268,626
2025	March	261,768
2025	April	425,873
2025	May	425,407

VI. WATER QUALITY COMPLAINTS

No complaints were received during this reporting period.

VII. OPERATIONS UPDATE

The overall operational strategy is to meet the daily water demand. The City of Rialto water system has six operational wells, one of which is owned by the County of San Bernardino and operated by Veolia; Oliver P. Roemer Treatment Plant (OPRTP), which is jointly owned by the City (25%) and West Valley Water District (WVWD); purchased water through the Baseline Feeder (BLF) system from San Bernardino Valley Municipal Water District (SBVMWD); and, if required to meet demand, additional water can be supplied by the City of San Bernardino (CSB) through the BLF for emergency supply only with no guarantee of actual delivery. Water produced from City Well 4A discharges into the BLF and its production is included in deliveries from that shared transmission line when City Well 4A is in service.

The overall pumping strategy is based on adjudicated rights, well availability, remediation requirements, and quality of source, cost to operate, and varying weather conditions. TDS effluent concentrations for the City of Rialto WWTP are taken into consideration when operating the facilities and water sources.

A. Operational Wells

All wells were operational.

B. Valve Activity

On the basis of information collected in 2019, Veolia now has a baseline assessment of all valves and has initiated a new cycle of valve exercising. 37 valves were exercised in the month of May.

Valve Turning Progress	
	Valves Turned
2020	530
2021	340
2022	463
2023	750
2024	379
2025	253

C. Hydrant Flushing

There are 63 hydrant/dead ends that are flushed annually to maintain water quality. 11 flushings were performed in May.

Hydrant/Dead End Flushing Progress	
	2025
January	0
February	0
March	6
April	6
May	11
Total	**23**
Progress % (37)	

D. Sanitary Survey

DDW performed field site visits on May 22 and August 22, 2024. The results of the sanitary survey were received on September 19, 2024. All minor deficiencies have been corrected and submitted to DDW.

VIII. ASSET MANAGEMENT

The following work orders were completed by Water production staff for the month of May:

- Preventive Maintenance –57
- Corrective Maintenance –0
- Predictive Maintenance –0

4– PMs planned for June 2025

A. Main Breaks, Service Leaks, Adverse Water Quality and Health/Safety Issues

The following work orders were completed by Water distribution staff for the month of May:

- Main line –2
- Service line –3
- Hydrants - 9
- Angle Meter Stop –11
- Meter Box & Lid Replacement –6
- Meter Leaks/ Replacements -16

B. Major Equipment and/or Machinery Outages

All wells were operational.

IX. RAINFALL TOTALS

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2019-20	0.00	0.00	0.00	0.00	0.64	1.52	0.23	0.33	1.18	3.42	0.00	0.00	7.32
2020-21	0.00	0.00	0.00	0.00	0.85	1.02	2.55	0.05	1.13	0.00	0.00	0.00	5.60
2021-22	0.53	0.00	0.00	0.55	0.00	7.27	0.00	0.00	0.77	0.45	0.03	0.00	9.60
2022-23	0.00	0.00	0.24	0.38	2.15	1.80	5.06	4.14	7.73	0.20	0.59	0.00	22.29
2023-24	0.00	2.62	0.00	0.09	0.60	1.18	1.00	10.38	1.87	0.53	0.34	0.00	18.61
2024-25	0.00	0.00	0.00	0.00	0.45	0.00	0.21	3.68	2.47	0.49	0.29		7.59

July 24- June 25	=	7.59	INCHES
YEAR TO DATE FOR 2025	=	**7.14**	INCHES
AVG. RAINFALL FOR LAST FIVE YEARS		8.87	INCHES

AVG. RAINFALL FOR SAN BERNARDINO COUNTY FOR THE LAST 100 YEARS = 16.25 INCHES

2025	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Totals	0.21	3.68	2.47	0.49	0.29								**7.14**

Highland - Los Angeles Basin - Station 251

Month Year	Total ETo (in)	Total Precip (in)	Avg Sol Rad (Ly/day)	Avg Vap Pres (mBars)	Avg Max Air Temp (°F)	Avg Min Air Temp (°F)	Avg Air Temp (°F)	Avg Max Rel Hum (%)	Avg Min Rel Hum (%)	Avg Rel Hum (%)	Avg Dew Point (°F)	Avg Wind Speed (mph)	Avg Soil Temp (°F)
Jan 2025	2.81 K	1.87	261	5.4	66.4 K	38.9	52.5	65	26	42	27.1	4.0 K	49.8 K
Feb 2025	2.87	4.35	321	8.9 K	71.3 K	45.9 K	57.8 K	80	37	56 K	40.7 K	3.5	53.8
Mar 2025	3.66	3.01	389	9.7	67.2 K	45.8	55.7	87	43	65	43.5	4.0 K	56.8
Apr 2025	4.90	1.39	480 K	9.8	73.3	48.8	60.3	82	34	56	43.5	4.2 K	61.2 K
May 2025	6.07	3.76	558	13.1	80.1	55.7	66.9 K	85	39	61 K	51.7 K	4.3	66.6 L
Tots/Avgs	20.31	14.4	402	9.4	71.7	47.0	58.6	80	36	56	41.3	4.0	57.6

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I. CUSTOMER SERVICE SUMMARY

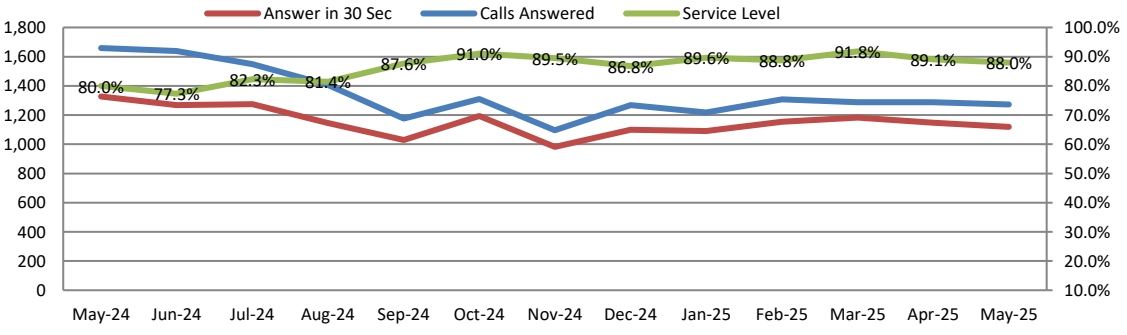
During this reporting month, the Customer Service team provided call service level of 88.0%. Out of 1,272 inbound calls answered 1,120 were answered within the first 30 seconds.

Water consumption has increased by 48.8% when compared against previous month. When compared against last year, consumption has increased by 48.8%. This increased value is due to one no-bill week in the beginning of the May. (~25%)

Sewer revenue has increased by 2.7% compared to the prior month and increased by 9.1% from last year.

II. CALL CENTER PERFORMANCE

During this reporting month, service level was 88.0% with 1,120 out of 1,272 being answered within the first 30 seconds. Overall average wait time was twenty-six (26) seconds.



	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25
Answer in 30 Sec	1,327	1,267	1,275	1,146	1,030	1,193	982	1,100	1,091	1,153	1,183	1,148	1,120
Calls Answered	1,659	1,639	1,549	1,406	1,176	1,310	1,096	1,267	1,218	1,308	1,288	1,287	1,272
Service Level	80.0%	77.3%	82.3%	81.4%	87.6%	91.0%	89.5%	86.8%	89.6%	88.8%	91.8%	89.1%	88.0%

III. AUTOMATED SERVICES

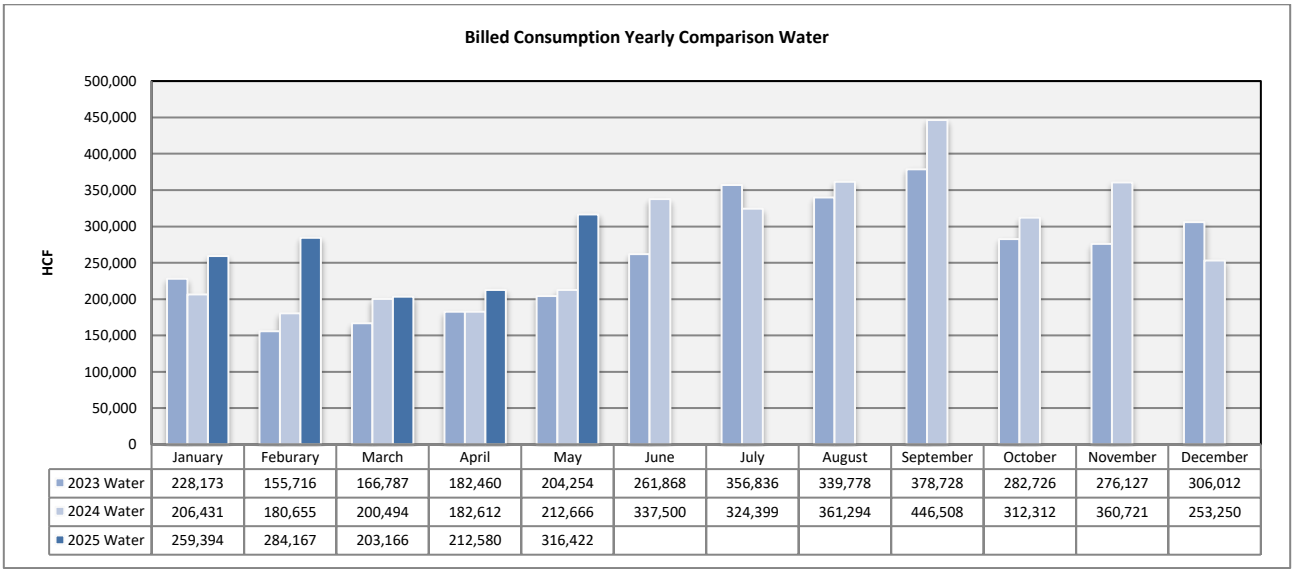
About 22,705 or 55.1% of the rate payers have created log-ins to access their accounts online. Of these customers, with online access, 47.9% have chosen the e-bill option. This e-bill participation is 6.1% increase from May of the prior year.

	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25
Number of Bills	22,331	22,372	22,410	22,425	22,470	22,541	22,571	22,575	22,587	22,604	22,657	22,694	22,705
Number of Bill Adjustments (during billing)	16	10	11	9	5	11	9	29	17	10	29	25	15
Automated Over the Phone Payments	2,382	2,058	2,250	2,310	2,050	2,483	2,092	2,436	2,509	2,040	2,509	2,454	2,276
Online Payment	9,126	7,457	9,828	9,302	7,538	9,302	7,804	10,320	9,747	7,676	9,912	9,798	8,434
E-bill Participants	5,654	5,683	5,731	5,770	5,814	5,855	5,922	5,959	5,997	6,031	6,069	5,969	6,000
Auto Pay Participants (New Portal)	4,129	4,165	4,221	4,273	4,278	4,305	4,343	4,367	4,420	4,467	4,536	4,554	4,630
PayNearMe	111	88	114	118	92	95	93	95	108	73	99	97	88

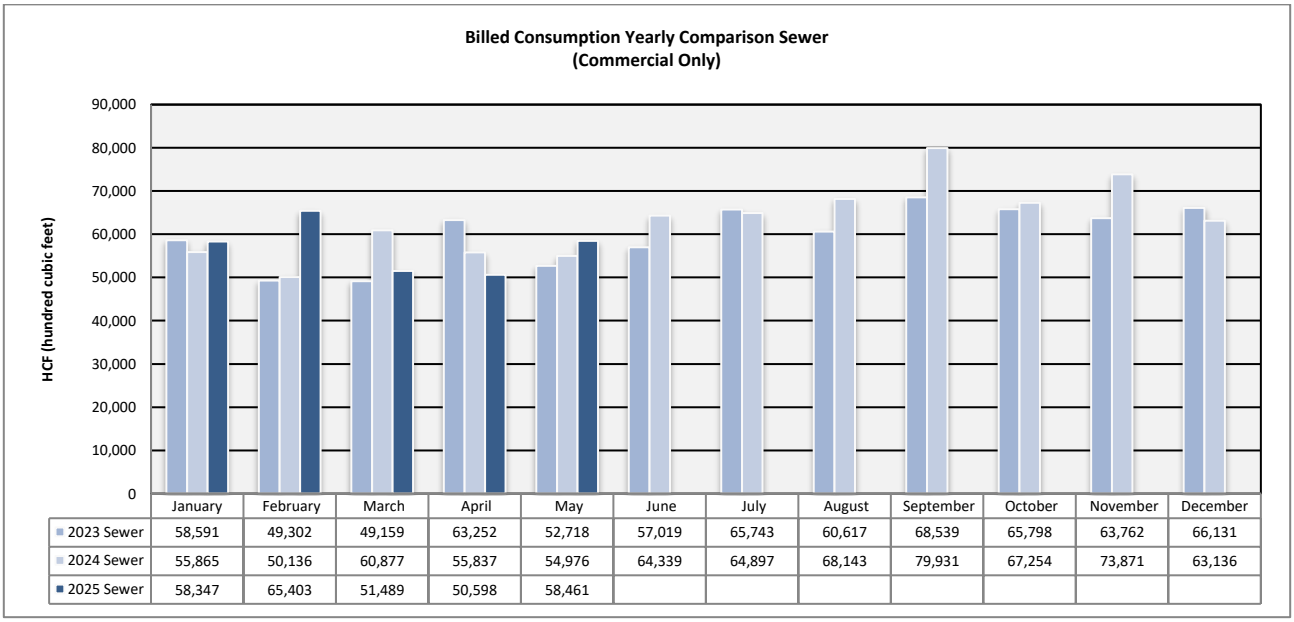
IV. CONSUMPTION & BILLING

A. Consumption

Water consumption has increased by 48.8% when compared against previous month. When compared against last year, consumption has increased by 48.8%. This increased value is due to one no-bill week in the beginning of the May. (~25%)



	January	Feburary	March	April	May	June	July	August	September	October	November	December
2023 Water	228,173	155,716	166,787	182,460	204,254	261,868	356,836	339,778	378,728	282,726	276,127	306,012
2024 Water	206,431	180,655	200,494	182,612	212,666	337,500	324,399	361,294	446,508	312,312	360,721	253,250
2025 Water	259,394	284,167	203,166	212,580	316,422							



	January	February	March	April	May	June	July	August	September	October	November	December
2023 Sewer	58,591	49,302	49,159	63,252	52,718	57,019	65,743	60,617	68,539	65,798	63,762	66,131
2024 Sewer	55,865	50,136	60,877	55,837	54,976	64,339	64,897	68,143	79,931	67,254	73,871	63,136
2025 Sewer	58,347	65,403	51,489	50,598	58,461							

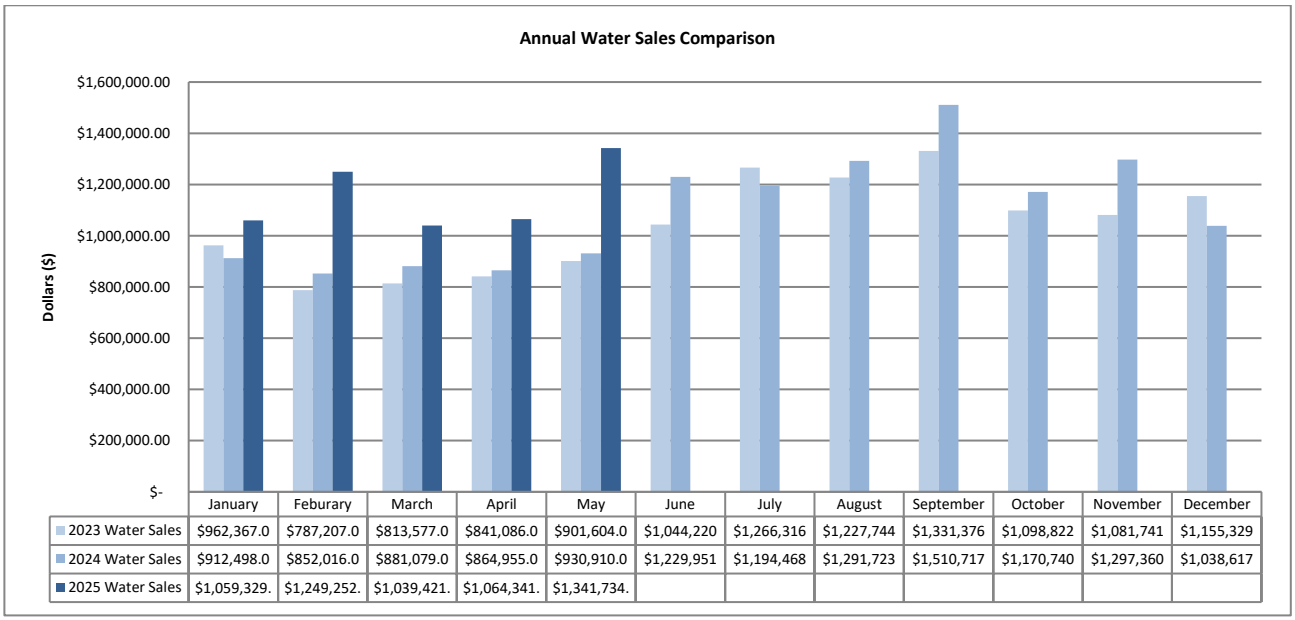
B. Billing

A total of 22,705 bills were mailed or sent out electronically in May. Billing accuracy was 99.9% with fifteen (15) requiring adjustments after bill generation.

V. REVENUE & AGING

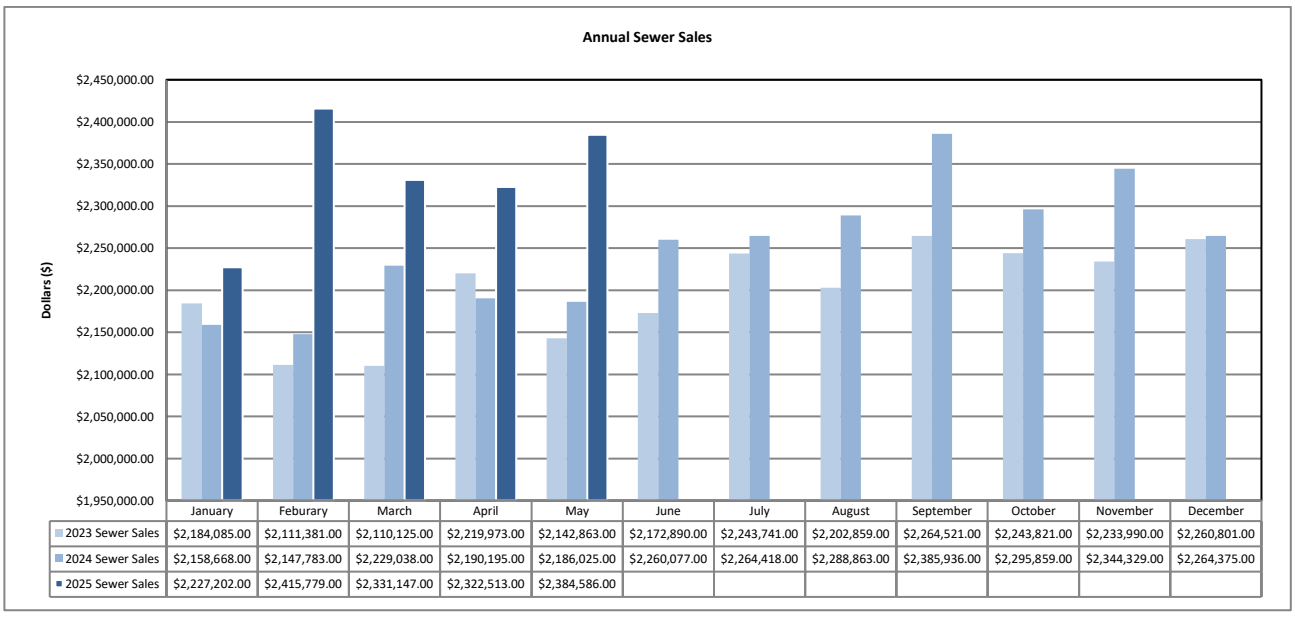
A. Revenue

Water revenue has increased 26.1% when compared against the prior month and increased 44.1% when compared against previous year. Sewer revenue has increased by 2.7% compared to the prior month and increased by 9.1% from last year. Increase of revenue in 2025 versus 2024 is due to rate modifications in January.



	January	Feburary	March	April	May	June	July	August	September	October	November	December
2023 Water Sales	$962,367.0	$787,207.0	$813,577.0	$841,086.0	$901,604.0	$1,044,220	$1,266,316	$1,227,744	$1,331,376	$1,098,822	$1,081,741	$1,155,329
2024 Water Sales	$912,498.0	$852,016.0	$881,079.0	$864,955.0	$930,910.0	$1,229,951	$1,194,468	$1,291,723	$1,510,717	$1,170,740	$1,297,360	$1,038,617
2025 Water Sales	$1,059,329.	$1,249,252.	$1,039,421.	$1,064,341.	$1,341,734.							

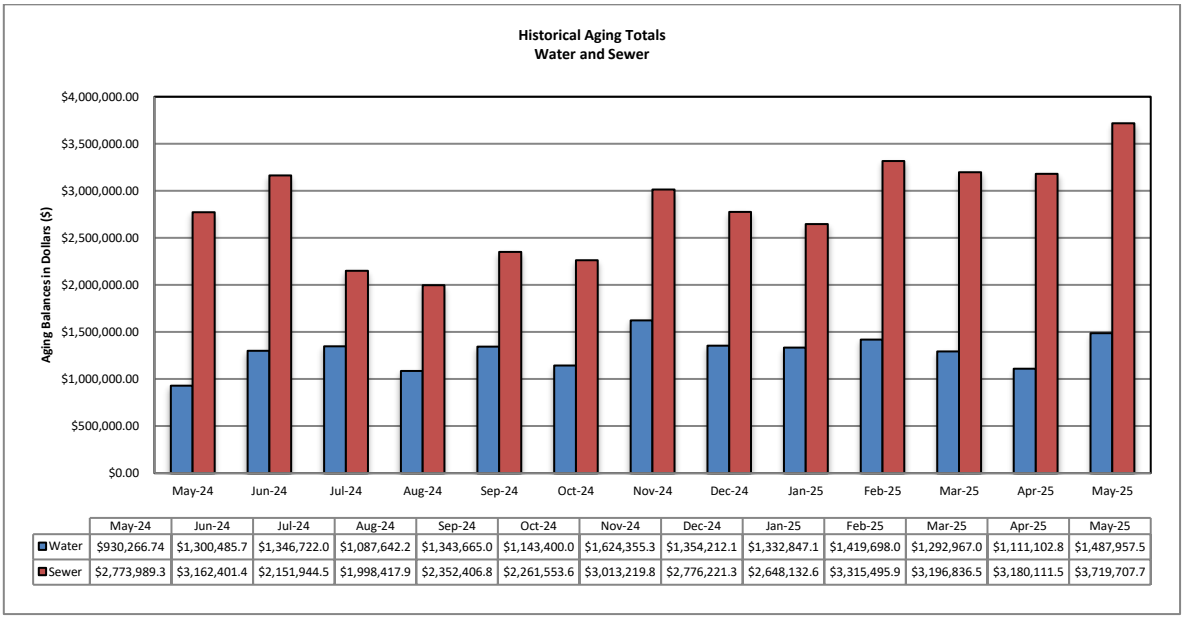
(Please consider the scale of the graph as doubled height does not mean double the amount)



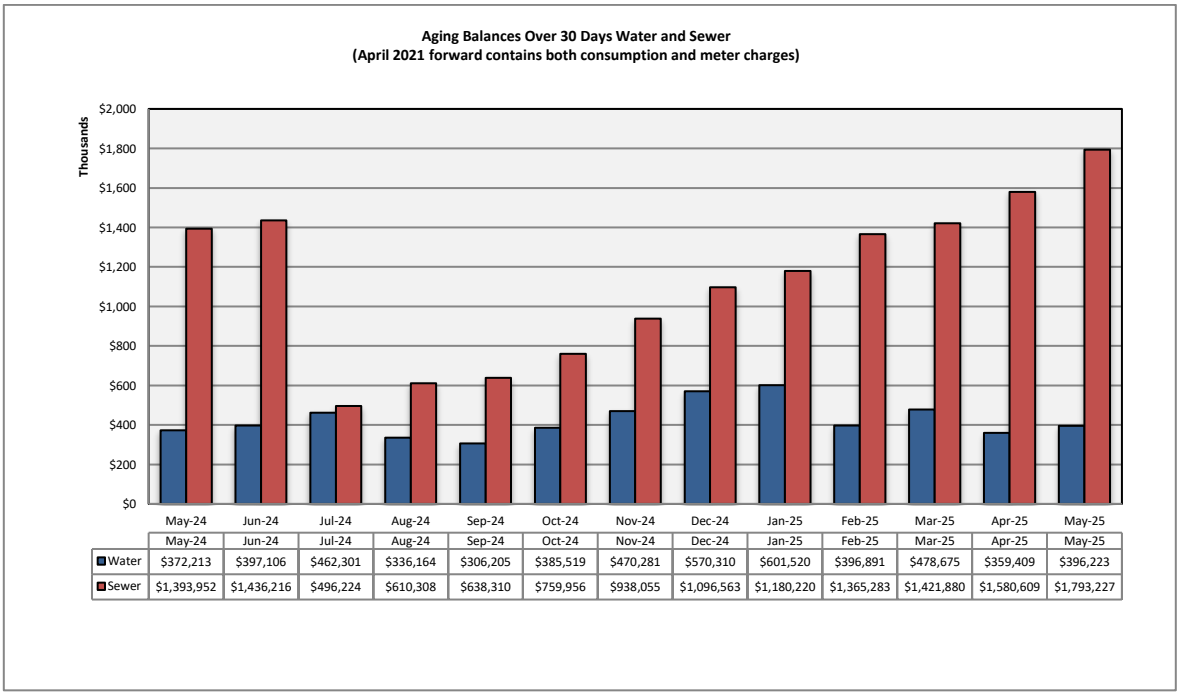
	January	Feburary	March	April	May	June	July	August	September	October	November	December
2023 Sewer Sales	$2,184,085.00	$2,111,381.00	$2,110,125.00	$2,219,973.00	$2,142,863.00	$2,172,890.00	$2,243,741.00	$2,202,859.00	$2,264,521.00	$2,243,821.00	$2,233,990.00	$2,260,801.00
2024 Sewer Sales	$2,158,668.00	$2,147,783.00	$2,229,038.00	$2,190,195.00	$2,186,025.00	$2,260,077.00	$2,264,418.00	$2,288,863.00	$2,385,936.00	$2,295,859.00	$2,344,329.00	$2,264,375.00
2025 Sewer Sales	$2,227,202.00	$2,415,779.00	$2,331,147.00	$2,322,513.00	$2,384,586.00							

B. Aging

The total aging balance has increased by 21.4%, *see first table below.* For balances >30-days only, water has increased 10.2% and wastewater has increased by 13.5%.



	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25
Water	$930,266.74	$1,300,485.7	$1,346,722.0	$1,087,642.2	$1,343,665.0	$1,143,400.0	$1,624,355.3	$1,354,212.1	$1,332,847.1	$1,419,698.0	$1,292,967.0	$1,111,102.8	$1,487,957.5
Sewer	$2,773,989.3	$3,162,401.4	$2,151,944.5	$1,998,417.9	$2,352,406.8	$2,261,553.6	$3,013,219.8	$2,776,221.3	$2,648,132.6	$3,315,495.9	$3,196,836.5	$3,180,111.5	$3,719,707.7



	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25
Water	$372,213	$397,106	$462,301	$336,164	$306,205	$385,519	$470,281	$570,310	$601,520	$396,891	$478,675	$359,409	$396,223
Sewer	$1,393,952	$1,436,216	$496,224	$610,308	$638,310	$759,956	$938,055	$1,096,563	$1,180,220	$1,365,283	$1,421,880	$1,580,609	$1,793,227

C. Bad Debt

Fifteen (15) accounts were sent to collections for a total amount of $4,098.08.

VI. SERVICE ORDERS

336 service orders were initiated by the customer service team during the reporting month. Of this total, 67 service orders or 20.0% were due to occupant changes.

199 service orders were initiated to accommodate water disconnection for non-payment and reconnection of water services when customer set up (or reinstate) a payment arrangement with down payment.

VII. OTHER ACTIVITIES

2,004 notice of potential tax roll has been sent out during the month of May. These letters were associated with 1,654 accounts. If property owner is different than account holder, multiple letters are sent out. 80% of these accounts have been tax rolled in 2024.

VIII. REVENUE REPORT

A. Revenue Summary

Cash Revenue is compiled and reconciled to the merchant account on a daily basis. Cash receipts and deposits are made daily and internal controls are reviewed regularly to ensure safeguarding of assets and proper recording of all transactions. Total revenue collected in May 2025 is $3,525,000 whereas Non-Rate Revenue is $62,000; Utility Revenue is $3,413,000 and Tax / Ambulance Revenue at $50,000.

RWS collects Utility User Taxes and Ambulance Fees on behalf of the City of Rialto. The Utility User Tax (UUT) rates are based on the total billed amount, therefore the collection fluctuates as billed amounts change. The total UUT charges collected in May 2025 and May 2024 are $45,000 and $284,000 respectively. The large variance in collection of UUT charges is due to the City exempting UUT charges to the Residential customers beginning January 2025 and December 2025. Ambulance Revenue is also collected on behalf of the City of Rialto totaling $5,000 in May 2025 and $6,000 in May 2024.

B. Non Rate Revenue - Extraterritorial Customers

RWS bills the City of Fontana $133,000 each month for extraterritorial sewer usage.

Colton Unified School District is in agreement with RWS to pay $5,000 monthly for sewage connections based on enrollment rates provided each school year.

An extraterritorial agreement to provide sewer service was executed between the City of Rialto and the County of San Bernardino—County Service Area 70, Zone BL (Bloomington).

This housing development project generates extraterritorial sewer service revenue of $20,000 per month.

The City has an agreement with Social Science Services dba Cedar House Life Change Center to provide extraterritorial sewer service providing sewer revenue of about $5,000 each month.

C. Non-Rate Revenue – Other

Other revenue is generated by leasing space for cell towers to AT&T, which has two leases at $2,073 and $1,500. Sprint lease is at a currently contracted rate of $2,000 each month. Vertical Bridge also provides $2,400 a month of cell tower generated Revenue.

Rialto Bioenergy Solutions subleased a City property for $10,750 a month.

The City and San Bernardino Valley Municipal Water District have entered into a Brine Line Capacity Agreement on May 23, 2021. This agreement pertains to the use of its interest in the SARI Line and discharge of certain brine waste to the SARI Line exclusively from the operation of Rialto Bioenergy Facilities within the City's boundaries. The revenue generated in this agreement consists of quarterly rent of $37,500 along with the Fixed Pipeline Capacity Fee of $3,300 per month and Fixed Treatment Plant Capacity Fee of $3,300 per month. In addition, a variable fee of any discharge costs are also billed.

The San Bernardino Valley Water District (SBVWD) reimburses RWS for water conservation programs provided to customers. A quarterly bill is delivered directly by the City.

D. Development Impact Fees

Development Impact Fees ("DIF") are paid to the City of Rialto as various developments are completed in the City. As such, the City of Rialto receives monies from the various developments, which is then distributed to RWS. There was no DIF payment received in May of 2024.

E. Rialto Basin Water Rights and Leasing

A Standby Water Lease Agreement between Fontana Union Water Company and City of Rialto is in effect. For the Water 2023-2024 Water Year, RWS received a payment from San Bernardino County the amount of $332,624 for Standby Charges and Production Charge.

In addition, the County is also billed annually for Rialto Well #3's summertime electricity costs based on peak usage.

Cash Collections by Payment Method – Rialto Water Services

Payment Method	Description	Transaction Count	MAY 2025	%
Carrier Deposits	Cash deposits prepared per day for transport to US Bank.	21	$ 123,958	3.48%
Remote Deposits	Scanned batches of checks payments made at the customer service counter	21	664,958	18.68%
EBOX	Batches of electronic customer payments posted to customer accounts at US Bank.	21	284,338	7.99%
PAYMENTUS - IVR / Paymentus / Walk-in Credit Card payment	Customer payments by credit cards and ACH / eCheck payments through an Interactive Voice Response system using a touchtone phone.Payments originated from Merchant online service	11,619	1,725,899	48.48%
Lockbox Deposits	Batches of customer payments mailed in to US Bank's lockbox	21	749,957	21.07%
Pay Near Me	Cash payment service that allows customers to pay at a local 7-Eleven, CVS, Walmart or Family Dollar stores.	86	11,011	0.31%
Total Revenue per Bank			**$ 3,560,122**	**100.00%**
Recon to RUA Recap:				
Adj detailed in RUA			(35,204)	
Prior mo. Correction				
RUA increase in Cash			**$ 3,524,918**	

Transaction Counts for Carrier Deposits, Remote Deposits, UB Bill Conc Service (EBOX), and Lockbox Deposits reflect number of batches deposited to the bank. Transaction counts for credit card POS, IVR, and Pay-Near-Me transactions are per number of customer payments. IVR payments are received and process by Paymentus on the day the transactions are made. General ledger are posted and accounted for the following day the payments are processed.

F. Payment Collection Method – Fiscal Year to Date

	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Total	%
Carrier Deposits	$ 122,310	$ 116,600	$ 111,287	$ 121,951	$ 89,627	$ 122,268	$ 120,688	$ 117,076	$ 137,735	$ 134,742	$ 123,958	$ 1,318,243	3.06%
Remote Deposits	227,143	953,011	373,642	394,629	613,264	685,915	291,981	1,113,745	471,688	802,083	664,958	$ 6,592,059	15.28%
EBOX	334,259	346,067	289,347	349,088	288,522	322,671	332,865	252,149	312,881	316,850	284,338	$ 3,429,036	7.95%
Paymentus, IVR, Credit Cards	1,827,817	1,855,221	1,688,345	2,034,573	1,499,559	2,049,055	2,011,139	1,553,121	2,179,266	1,939,784	1,725,899	$ 20,363,779	47.21%
Lockbox Deposits	1,169,619	1,273,243	1,089,604	1,285,860	903,561	1,175,827	1,098,091	706,631	1,025,831	821,238	749,957	$ 11,299,462	26.20%
Pay Near Me	14,561	14,530	10,989	11,968	10,491	12,923	12,774	7,957	12,063	11,624	11,011	$ 130,892	0.30%
Total Revenue to Bank	**$3,695,709**	**$4,558,672**	**$ 3,563,214**	**$ 4,198,069**	**$ 3,405,024**	**$ 4,368,659**	**$ 3,867,538**	**$ 3,750,679**	**$ 4,139,464**	**$ 4,026,321**	**$ 3,560,122**	**$ 43,133,471**	**100.00%**
NSF	(7,962)	(4,946)	(8,970)	(8,951)	(21,124)	(20,764)	(9,479)	(10,322)	(8,496)	(9,457)	(10,260)	$ (120,731)	
Net deposits	**$3,687,747**	**$4,553,726**	**$ 3,554,244**	**$ 4,189,118**	**$ 3,383,900**	**$ 4,347,895**	**$ 3,858,059**	**$ 3,740,357**	**$ 4,130,968**	**$ 4,016,864**	**$ 3,549,862**	**$ 43,012,740**	

G. Cash Collections on Behalf of the City of Rialto-Prior Year Comparison

	May 2025	May 2024	Variance
UUT Water	$ 18,230	$ 84,788	$ (66,558)
UUT Sewer	26,728	199,424	(172,696)
Ambulance	4,879	6,218	(1,339)
Total	**$ 49,836**	**$ 290,430**	**$ (240,594)**

H. Non-Rate Revenue + Utility Revenue Collections Prior Year Comparison

	May 2025	May 2024	Variance
Non-Rate / Extra Territorial Revenue	$ 61,967	$ 525,133	$ (463,166)
Utility Revenue	$3,413,115	$5,225,710	(1,812,595)
Total	**$3,475,082**	**$5,750,843**	**$(2,275,761)**

I. Non-Rate Revenue + Utility Revenue Collected Fiscal Year-to-Date

	Jul 2024	Aug 2024	Sept 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Total
Non-Rate Revenue												
Cell Tower Rent,Llease	5,647	19,985	21,506	66,161	55,391	9,235	12,824	29,957	55,985	66,904	19,985	363,580
Interest Income	19,290	9,559	-	-	-	-	-	-	-	-	9,000	37,849
NRR-FOG	-	-	-	-	-	-	-	-	-	-	-	-
Municipal Water Sales	-	-	-	-	332,624	-	-	-	-	-	-	332,624
Extra Terr- Sewage	31,463	252,123	161,340	185,039	136,360	128,586	145,544	225,208	159,667	346,473	-	1,771,803
Abatement of Expenses	-	-	-	-	-	-	-	-	-	-	-	-
Water Meter Lost/Damaged/Repl	1,419	710	2,129	5,171	-	-	4,924	492	36,930	10,601	26,256	88,633
Misc Fees - New Occ., Same Day Svc	5,877	4,453	4,939	5,629	3,067	5,525	5,945	6,069	6,060	6,400	6,726	60,690
Miscellaneous Revenue - Sewer	-	-	-	-	-	-	-	-	-	-	-	-
NSF	-	342	-	152	35	-	30	-	-	-	-	559
Total Non-Rate Revenue	**$ 63,696**	**$ 287,172**	**$ 189,914**	**$ 262,152**	**$ 527,477**	**$ 143,346**	**$ 169,267**	**$ 261,726**	**$ 258,642**	**$ 430,379**	**$ 61,967**	**2,655,737**
Utility Revenue												-
Water Penalty	3,154	15,321	10,183	5,903	2,602	720	101	6,016	16,300	23,990	27,506	111,796
Sewer Penalty	5,200	33,061	18,283	7,639	3,313	1,435	700	11,411	33,426	40,185	43,522	198,175
Turf Removal, Hi-Eff Rebate	(1,000)	(100)	-	-	-	-	-	-	-	(1,000)	-	(2,100)
Water Deposits Billed	17,289	8,629	9,906	8,629	8,686	10,057	11,411	11,856	20,052	16,614	13,908	137,038
Hydrant Deposits	574	-	-	-	420	282	-	-	702	-	-	1,978
Sewer Deposits Paid	-	-	-	-	-	-	-	-	-	-	-	-
Sewer Deposits Billed	11,760	12,823	9,518	10,900	15,201	8,822	11,737	8,959	18,436	10,612	14,975	133,743
Water	1,171,886	1,540,256	1,194,449	1,386,681	884,906	1,229,369	1,086,436	1,126,085	1,161,792	1,223,012	976,785	12,981,657
Sewer	2,327,246	2,418,456	1,959,890	2,448,917	1,669,263	2,454,711	2,380,281	1,745,679	2,469,796	2,345,182	1,902,496	24,121,917
Unapplied Credits	(101,077)	(54,176)	(140,916)	(81,949)	(69,090)	(35,829)	(43,709)	(83,121)	(42,584)	(20,663)	(61,290)	(734,404)
Bad Debt Sewer	12,029	9,909	-	-	-	-	4,560	-	-	-	6,647	33,145
Bad Debt Water	-	-	-	-	-	-	-	-	-	-	-	-
Tax Roll Sewer	15,596	2,790	-	-	-	22,950	399,116	474,784	8,462	3,652	488,565	1,415,915
Collection Agency - Water	-	-	-	-	-	-	-	-	-	-	-	-
Collection Agency - Sewer	-	-	-	-	-	-	-	-	-	-	-	-
Collection Agency - Misc Water	-	-	-	-	-	-	-	-	-	-	-	-
Total Utility Revenue	**$3,462,657**	**$3,986,969**	**$3,061,313**	**$3,786,720**	**$ 2,515,301**	**$ 3,692,517**	**$ 3,850,633**	**$ 3,301,669**	**$ 3,686,382**	**$ 3,641,584**	**$ 3,413,115**	**$38,398,861**
Total Non-Rate + Utility Rev.	**3,526,353**	**4,274,141**	**3,251,227**	**4,048,872**	**3,042,778**	**3,835,863**	**4,019,900**	**3,563,395**	**3,945,024**	**4,071,963**	**3,475,082**	**41,054,598**

J. Increase in Cash Collections and Fund Distribution—Prior Year Comparison

	Increase to Cash per Incode	Adjustments Required to GL Cash	Fund 660-Sewer	Fund 670-Water	Total Cash Per GL	Adjustments To Match RUA to Bank	Cash/CC/Cks Deposit To Bank
May 2025	123,958	10,063	2,412,249	1,102,607	3,524,918	35,204	**3,560,122**
May 2024	4,487,203	7,390	3,154,879	1,324,934	4,487,203	(21,462)	**4,465,741**

K. Non-Rate and Extraterritorial Customer Accounts Receivable Aging

Name	Total as of 5/31/2025	Current	31 to 60 days	61 to 90 days	>90 days
AT&T - Easton	**$ (1,500)**	(1,500)			
Cedar House	**5,692**	5,692			
CITY OF FONTANA	**133,713**	133,713			
Colton Unified School District	**5,571**	5,571			
County of San Bernardino-CSA 70 BL	**20,948**	20,948			
Rialto BioEnergy Facilities	**32,278**	21,528	10,750		
Sprint-Nextel	**9,331**	-			9,331
San Bernardino Co Waste System Div	**-**	-			
SB Valley Mun Water District	**-**	-			
Vertical Bridge Holdco, LLC (CIG)	**4,714**	-			4,714
Grand Total	**$ 210,746**	**$ 185,952**	**$ 10,750**	**$ -**	**$ 14,045**

AT&T makes annual payment of one cell tower rent and monthly dues on the other. The customer is current with its payments.

Social Science Service (Cedar House) balance reflects current service fees.

City of Fontana is current with its obligations.

Colton Unified School District is current with its obligations.

County of San Bernardino is current with its obligations.

Rialto Bioenergy Solutions RWS shows a current Invoice balance in May. Subsequently, received payments in June.

Vertical Bridge Holdco, LLC and Sprint: Vertical Bridge and Sprint have been contacted for open Invoices as well.

RIALTO WASTEWATER

MONTHLY OPERATIONS REPORT

Reporting Period:
May 2025

Prepared for: - Rialto Water Services

Prepared by: - Veolia Water West Operating Services

RIALTO WASTEWATER
OPERATIONS AND MAINTENANCE REPORT

Contents

RIALTO WASTEWATER

MONTHLY OPERATIONS REPORT

EXECUTIVE SUMMARY

Highlights of this month's Wastewater O&M report include the following:

- The treatment plant performed well and met all compliance parameters.
- There were two residential call-outs for sewer-related issues.

1. Collection System/Customer Service Log

a. Collections group activities this month:

Category	Current Month Statistics	Prior Month Statistics	2025 Year to Date Statistics
Sanitary sewers are cleaned using the conventional method, including feet, which includes "Hot spot cleaning."	35,102	15,459	118,351
Sanitary sewers assessed using the SL-RAT method, feet	35	0	35
CCTV Inspection, miles (26 is the annual goal)*	3.37	2.63	12.7
Manhole Inspections	1	13	31
USA Dig Alert Markings, count	28	69	201
Residential call outs	3	2	11
Sanitary sewer overflows	0	0	1

b. S.S.O. N/A

c. Customer Service Call Outs – See Item 9 for details.

2. Wastewater Treatment Plant – Monthly Overview

- NPDES discharge compliance parameters were achieved.

a. Significant events during the month were:

O.R.&R. Projects WW2324-17 and WW2324-18 completed and in operation.

3. Treatment Facility Performance/Laboratory Activities

a. See the attached Table 1, Monthly Performance Summary.

b. Summary of Notices and Laboratory Tests/Reports filed with government agencies.
The monthly submittal of State/Federal discharge monitoring reports was completed promptly.

c. Effluent specification exceedance discussion
See Section 2 above. N/A

4. Monthly Safety Program Overview

Category	Monthly Statistic
Safety Training Topics	2
Lost Time Incidents count*	0
Recordable Incidents, count	0
Near Miss Incidents, count	1
Vehicle Incidents, count	0

*A lost time incident has not occurred since 9-3-2020, totaling 1,730 days.

5. Biosolids, Chemicals, and Utilities

a. Monthly Biosolids Production

Biosolids	Current Month Statistics	Prior Month Statistics	2025 Year-to-Date Statistics
Wet Tons Produced	1,408.62	1,532.12	6,464.51

b. Monthly Chemical Consumption

Chemical	Current Month Gallons Used	Prior Month Gallons Used
Sodium Hypochlorite, Tertiary Disinfection	29,766	28,526
Sodium Bisulfite, Discharge Dechlorination	11,166	7,003
Ferrous Chloride, Digester Gas Conditioning	4,398	4,108
Polymer, Gravity Belt Thickener	353	356
Polymer, Belt Filter Press	702	712
Alum, Tertiary Filters	1	12

c. Monthly Utilities Consumption

Utility	Current Month Statistics	Prior Month Statistics
Electricity WWTP, KWH	**	412,716
Electricity Lilac LS, KWH	**	755
Electricity Sycamore LS, KWH	**	493*
Electricity Ayala LS, KWH	**	7895
Electricity Agua Mansa LS, KWH	**	2818
Electricity Cactus LS, KWH	**	1585
Electricity Ramrod LS, KWH	623	597
Frisbee Park LS, KWH	**	769
El Rancho Verde LS, KWH	1975	1825
Natural Gas WWTP, Therms	5969	5930

***** LS is in bypass mode, pending CIP completion

****** SCE has not updated this account.

6. Odor Complaints Received/Actions Taken

No odor complaints were received this month.

7. Major Equipment and/or Machinery Outages

- Sludge Holding Tank
- Aeration Basin #1 is currently offline.

8. Outside Agency Activities during the Month

a. Government agency or property insurance inspections
None

b. Government agency environmental, health, or safety tests/monitoring
Permit testing was completed for this month

c. Government agency notices of violation received
No notices were received.

d. Government agency monitoring
Routine monitoring reports were submitted.

e. Other matters of concern
None

9. Customer Service Callout Details Log

Date	Address	Comments	Personnel	Manhole	To Manhole
5/7/2025	429 E Mariposa	The resident called to report a backup in their sewer line. The mainline was inspected and found to be clear. The resident was informed to call the plumber.	ET	NA	NA
5/19/2025	1039 N Sycamore	A call was received from Public Works about a possible SSO. The problem was a potable water leak on the resident's property.	ET	NA	NA
5/22/2025	1173 Cactus	A resident called to report roaches coming from a manhole. Collection applied roach bait to the manhole and scheduled it for spraying. The resident was informed.	ET		

Table 1 Summary

Table 1 Summary MOR

May 2025

	Rialto	Rialto			Rialto	Rialto WRF\Effluent			Rialto WRF\Influent		Rialto WRF\Effluent		
Date	Influent daily flow MGD	Effluent Flow MGD	Influent BOD mg/l	Influent BOD mg/l	Influent BOD Load lbs/day	Effluent BOD mg/L	Effluent BOD Load lbs/day	BOD % Removal %	Influent TSS mg/L	Influent TSS Load lbs/day	Effluent TSS mg/L	Effluent TSS Load lbs/day	TSS % Removal %
5/1/2025	7.21	7.04											
5/2/2025	6.41	6.76	310	310	16,572	2.5	140.95	99.20					
5/3/2025	6.88	7.35											
5/4/2025	6.48	7.30											
5/5/2025	7.54	7.26	300	300	18,865	<5.0	302.74	98.30	190.00	11948.00	<0.50	30.00	99.70
5/6/2025	6.97	7.64											
5/7/2025	6.84	7.02											
5/8/2025	7.10	7.06											
5/9/2025	7.21	7.29	320	320	19,242	4.0	243.19	98.80					
5/10/2025	6.29	7.54											
5/11/2025	6.78	7.14											
5/12/2025	6.91	6.73	390	390	22,475	3.1	174.00	99.20	240.00	13831.00	1.00	56.00	99.60
5/13/2025	6.99	7.21											
5/14/2025	6.74	6.98											
5/15/2025	6.93	7.40											
5/16/2025	6.92	7.16	360	360	20,777	3.8	226.91	98.90					
5/17/2025	6.57	7.10											
5/18/2025	6.92	7.28											
5/19/2025	7.27	7.41	470	470	28,497	3.1	191.58	99.30	260.00	15764.00	1.00	62.00	99.60
5/20/2025	7.00	6.86											
5/21/2025	6.89	7.48											
5/22/2025	6.98	7.07											
5/23/2025	6.91	7.36	330	330	19,018	4.9	300.77	98.50					
5/24/2025	6.73	6.79											
5/25/2025	6.72	7.23											
5/26/2025	6.48	6.72											
5/27/2025	7.19	7.16	300	300	17,989	3.1	185.11	99.00	220.00	13192.00	0.80	48.00	99.60
5/28/2025	6.89	7.41											
5/29/2025	6.84	7.23											
5/30/2025	6.69	7.37											
5/31/2025	6.90	6.84											
Minimum	6.29	6.72	300	300	16,572	2.5	140.95	98.30	190.00	11948.00	<0.50	30.00	99.60
Maximum	7.54	7.64	470	470	28,497	<5.0	302.74	99.30	260.00	15764.00	1.00	62.00	99.70
Total	213.18	222.19	2,780	2,780	163,436	<29.5	1765.26	791.20	910.00	54735.00	<3.30	196.00	398.60
Average	6.88	7.17	348	348	20,429	<3.7	220.66	98.90	228.00	13684.00	<0.83	49.00	99.60

Table 2 Summary

Table 2 Summary MOR

May 2025

	Rialto	Rialto WRF\Effluent		Rialto WRF\Eff		Rialto WRF\Effluent		Rialto	Rialto
Date	Influent Conductivity (uS/cm)	Eff Conductivity Daily Ave (uS/cm)	Influent COD mg/l	Final Effluent COD mg/l	Influent TDS mg/l	Filter Effluent TDS mg/l	EFF FINAL TDS mg/L	Influent Inorganic Nitrogen mg/L	Effluent Inorganic Nitrogen mg/l as N
5/1/2025	1411.00	819.00							
5/2/2025	1429.00	836.00							
5/3/2025	1274.00	886.00							
5/4/2025	1362.00	878.00							
5/5/2025	1250.00	857.00							
5/6/2025	1209.00	860.00	690	20.0	480.00	420.00	470.00	40.00	9.80
5/7/2025	1481.00	879.00							
5/8/2025	1379.00	879.00							
5/9/2025	1392.00	855.00							
5/10/2025	1461.00	860.00							
5/11/2025	1211.00	849.00							
5/12/2025	1430.00	857.00							
5/13/2025	1297.00	889.00							
5/14/2025	1540.00	865.00							
5/15/2025	1441.00	846.00							
5/16/2025	1376.00	840.00							
5/17/2025	1430.00	853.00							
5/18/2025	1392.00	863.00							
5/19/2025	1468.00	844.00							
5/20/2025	1606.00	833.00							
5/21/2025	1489.00	826.00							7.30
5/22/2025	1587.00	811.00							
5/23/2025	1427.00	811.00							
5/24/2025	1405.00	845.00							
5/25/2025	1362.00	842.00							
5/26/2025	1474.00	823.00							
5/27/2025	1401.00	818.00							
5/28/2025	1424.00	840.00							
5/29/2025	1400.00	830.00							
5/30/2025	1594.00	840.00							
5/31/2025	1292.00	826.00							
Minimum	1209.00	811.00	690	20.0	480.00	420.00	470.00	40.00	7.30
Maximum	1606.00	889.00	690	20.0	480.00	420.00	470.00	40.00	9.80
Average	1409.00	847.00	690	20.0	480.00	420.00	470.00	40.00	8.55

Table 3 Summary

***Cyanide was not available at the time of report completion**

Table 3 Summary MOR

May 2025

	Rialto WRF\Influent		Rialto WRF\Effluent		Rialto WRF\Eff		Rialto WRF\Effluent		Tranfer	Tranfer	Rialto	Tranfer Data
	Influent pH	24 hr avg. effl. pH	Effluent Temp	Effluent Ammonia	Effluent Total Coliform	Effluent Coliform 7 Day Median	Effluent Cyanide, Free Available	Eff Di(2-ethylhexyl) phthalate (DEHP)	FIT-8321 ADG #2 Flow	FIT-8321 ADG #2 Flow	Natural Gas Daily Use	FIT-8321 ADG #2 Flow
Date	SU	SU	Deg C	mg/L	MPN/100mL	MPN/100ML	ug/L	ug/l	cu ft/day	cu ft/day	cf/day	cu ft/day
5/1/2025	7.60	7.27	23.20		<1.8	<1.80			106190.00	106190.00	14800.00	106190.00
5/2/2025	7.47	7.25	23.20		<1.8	<1.80			161969.00	161969.00	16900.00	161969.00
5/3/2025	7.15	7.21	23.10		<1.8	<1.80			162510.00	162510.00	17600.00	162510.00
5/4/2025	7.21	7.25	22.90		<1.8	<1.80			140239.00	140239.00	17700.00	140239.00
5/5/2025	7.15	7.23	22.90	<0.10	2.0	<1.80			143488.00	143488.00	20400.00	143488.00
5/6/2025	7.23	7.19	22.70		<1.8	<1.80		<5.00	134689.00	134689.00	38100.00	134689.00
5/7/2025	7.37	7.14	22.70		<1.8	<1.80			157241.00	157241.00	24100.00	157241.00
5/8/2025	7.41	7.15	23.10		<1.8	<1.80			162513.00	162513.00	20100.00	162513.00
5/9/2025	7.47	7.11	23.60		<1.8	<1.80			162522.00	162522.00	21900.00	162522.00
5/10/2025	7.15	6.94	23.90		<1.8	<1.80			168082.00	168082.00	20400.00	168082.00
5/11/2025	7.46	7.17	24.10		<1.8	<1.80			155297.00	155297.00	20000.00	155297.00
5/12/2025	7.38	7.20	24.10	<0.10	<1.8	<1.80			159340.00	159340.00	20700.00	159340.00
5/13/2025	7.46	7.20	23.70		2.0	<1.80			157234.00	157234.00	1700.00	157234.00
5/14/2025	7.06	7.15	23.40		<1.8	<1.80			164091.00	164091.00	21300.00	164091.00
5/15/2025	7.16	7.05	23.50		<1.8	<1.80			150764.00	150764.00	20600.00	150764.00
5/16/2025	7.30	6.86	23.80		<1.8	<1.80			191879.00	191879.00	19800.00	191879.00
5/17/2025	7.18	6.94	23.80		<1.8	<1.80			181759.00	181759.00	21100.00	181759.00
5/18/2025	7.27	7.06	23.50		<1.8	<1.80			193843.00	193843.00	22300.00	193843.00
5/19/2025	7.20	7.00	23.90	0.07	<1.8	<1.80			152861.00	152861.00	21800.00	152861.00
5/20/2025	6.70	7.23	24.30		<1.8	<1.80			159318.00	159318.00	21700.00	159318.00
5/21/2025	7.38	7.29	24.50		<1.8	<1.80			162266.00	162266.00	2300.00	162266.00
5/22/2025	7.51	7.26	24.70		<1.8	<1.80			159695.00	159695.00	2200.00	159695.00
5/23/2025	7.34	7.24	24.70		4.0	<1.80			159091.00	159091.00	22200.00	159091.00
5/24/2025	7.49	7.26	24.60		<1.8	<1.80			153515.00	153515.00	22100.00	153515.00
5/25/2025	7.64	7.23	24.50		<1.8	<1.80			165120.00	165120.00	21000.00	165120.00
5/26/2025	7.60	7.26	24.40		<1.8	<1.80			142055.00	142055.00	10800.00	142055.00
5/27/2025	7.60	7.37	24.80	0.07	<1.8	<1.80			140877.00	140877.00	900.00	140877.00
5/28/2025	7.27	7.36	24.90		<1.8	<1.80			150280.00	150280.00	21300.00	150280.00
5/29/2025	7.56	7.25	24.80		<1.8	<1.80			156478.00	156478.00	21000.00	156478.00
5/30/2025	7.43	7.22	25.10		<1.8	<1.80			181468.00	181468.00	1600.00	181468.00
5/31/2025	7.29	7.19	25.50		<1.8	<1.80			126354.00	126354.00	1500.00	126354.00
Minimum	6.70	6.86	22.70	0.07	<1.8	<1.80		<5.00	106190.00	106190.00	900.00	106190.00
Maximum	7.64	7.37	25.50	<0.10	4.0	<1.80		<5.00	193843.00	193843.00	38100.00	193843.00
Average	7.34	7.18	23.90	<0.09	<1.9	<1.80		<5.00	156872.00	156872.00	17094.00	156872.00

Monthly Sewer Line Cleaned

Pipe Cleaning - May 2025