



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

PURSUANT TO THE PROVISIONS OF AB 361, THIS MEETING WILL BE CONDUCTED VIRTUALLY WITH THE OPPORTUNITY FOR PUBLIC COMMENT. ALL VOTES TAKEN WILL BE AN ORAL ROLL CALL.

This meeting will be accessible as follows:

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Meeting Access Via Computer (Zoom)*: | Meeting Access Via Telephone*: |
| <ul style="list-style-type: none"> https://sawpa.zoom.us/j/83936074600 Meeting ID: 839 3607 4600 | <ul style="list-style-type: none"> 1 (669) 900-6833 Meeting ID: 839 3607 4600 |
| * Participation in the meeting via the Zoom app (a free download) is strongly encouraged. | |

AGENDA

TUESDAY, AUGUST 2, 2022 – 10:00 A.M.

REGULAR MEETING OF THE PROJECT AGREEMENT 24 COMMITTEE

Inland Empire Brine Line

Committee Members

| | |
|-------------------------------------------------------|-----------------------------------------|
| Eastern Municipal Water District | Inland Empire Utilities Agency |
| Joe Mouawad, General Manager | Director Marco Tule |
| Director David J. Slawson (Alt) | Shivaji Deshmukh, General Manager (Alt) |
| San Bernardino Valley Municipal Water District | Western Municipal Water District |
| Director T. Milford Harrison, Chair | Director Mike Gardner, Vice Chair |
| Director Gil Botello (Alt) | Craig Miller, General Manager (Alt) |

1. CALL TO ORDER | PLEDGE OF ALLEGIANCE (T. Milford Harrison, Chair)

2. PUBLIC COMMENTS

Members of the public may address the Committee on items within the jurisdiction of the Committee; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).

3. ITEMS TO BE ADDED OR DELETED

Pursuant to Government Code §54954.2(b), items may be added on which there is a need to take immediate action and the need for action came to the attention of the Santa Ana Watershed Project Authority subsequent to the posting of the agenda.

4. CONSENT CALENDAR

- A. [APPROVAL OF MEETING MINUTES: JUNE 7, 2022](#)5
Recommendation: Approve as posted.
- B. [APPROVAL OF MEETING MINUTES: JUNE 21, 2022](#)9
Recommendation: Approve as posted.

5. COMMITTEE DISCUSSION/ACTION ITEMS

- A. [INLAND EMPIRE BRINE LINE MASTER PLAN \(PA24#2022.8\)](#)13
Presenter: David Ruhl
Recommendation: Direct staff to release a Request for Proposals (RFP) for Professional Services for the preparation of the Inland Empire Brine Line Master Plan.

6. INFORMATIONAL REPORTS

Recommendation: Receive for information.

- A. [BRINE LINE FINANCIAL REPORT – MAY 2022](#)51
Presenter: Karen Williams
- B. [FINANCIAL REPORT FOR THE THIRD QUARTER ENDING MARCH 31, 2022](#).....57
Presenter: Karen Williams

7. REQUEST FOR FUTURE AGENDA ITEMS

8. CLOSED SESSION

There were no Closed Session items anticipated at the time of the posting of this agenda.

9. ADJOURNMENT

PLEASE NOTE:

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Clerk of the Board at (951) 354-4220. Notification at least 48 hours prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility to this meeting.

Materials related to an item on this agenda submitted to the Committee after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at www.sawpa.org, subject to staff’s ability to post documents prior to the meeting.

Declaration of Posting

I, Sara Villa, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on July 28, 2022, a copy of this agenda has been uploaded to the SAWPA website at www.sawpa.org and posted at SAWPA’s office, 11615 Sterling Avenue, Riverside, California.

2022 Project Agreement 24 Committee Regular Meetings

Inland Empire Brine Line

First Tuesday of Every Month

(Note: All meetings begin at 10:00 a.m., or immediately following the 9:30 a.m. SAWPA Commission meeting, whichever is earlier, unless otherwise noticed, and are held at SAWPA.)

| | | | |
|------------------|--------------------------------------------------|-----------------|---------------------------|
| January | | February | |
| 1/4/22 | Regular Committee Meeting [cancelled] | 2/1/22 | Regular Committee Meeting |
| March | | April | |
| 3/1/22 | Regular Committee Meeting [cancelled] | 4/5/22 | Regular Committee Meeting |
| May | | June | |
| 5/3/22 | Regular Committee Meeting [cancelled] | 6/7/22 | Regular Committee Meeting |
| | | 6/24/22 | Special Committee Meeting |
| July | | August | |
| 7/5/22 | Regular Committee Meeting [cancelled] | 8/2/22 | Regular Committee Meeting |
| September | | October | |
| 9/6/22 | Regular Committee Meeting | 10/4/22 | Regular Committee Meeting |
| November | | December | |
| 11/1/22 | Regular Committee Meeting | 12/6/22 | Regular Committee Meeting |

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PROJECT AGREEMENT 24 COMMITTEE
Inland Empire Brine Line
REGULAR MEETING MINUTES
June 7, 2022

COMMITTEE MEMBERS PRESENT

T. Milford Harrison, Chair, San Bernardino Valley Municipal Water District Governing Board
Mike Gardner, Vice Chair, Western Municipal Water District Governing Board
Joe Mouawad, Eastern Municipal Water District General Manager
Marco Tule, Inland Empire Utilities Agency Governing Board

ALTERNATE COMMITTEE MEMBERS PRESENT [Non-Voting]

David Slawson, Eastern Municipal Water District

STAFF PRESENT

Jeff Mosher, David Ruhl, Dean Unger, Edina Goode, Marie Jauregui, Sara Villa, Haley Mullay,
Zyanya Ramirez, John Leete

OTHERS PRESENT

Andrew D. Turner, Lagerlof, LLP; Nick Kanetis, Eastern Municipal Water District; Ken Tam, Inland
Empire Utilities Agency; Matt Howard, San Bernardino Valley Municipal Water District; Craig Miller,
Western Municipal Water District; Derek Kawaii, Western Municipal Water District

1. CALL TO ORDER| PLEDGE OF ALLEGIANCE

The regular meeting of the PA 24 Committee was called to order at 10:37 a.m. by Chair Harrison on behalf of the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California. Pursuant to the provisions of AB 361, this meeting was conducted virtually. All votes taken during this meeting were conducted via oral roll call.

2. PUBLIC COMMENTS

There were no public comments; there were no public comments received via email.

3. ITEMS TO BE ADDED OR DELETED

There were no added or deleted items.

4. APPROVAL OF MEETING MINUTES: APRIL 5, 2022

Chair Harrison called for a motion to approve the April 5, 2022; meeting minutes as posted.

MOVED, approve the April 5, 2022, meeting minutes.

| | |
|----------------|------------------------------------------------|
| Result: | Adopted by Roll Call Vote (Unanimously) |
| Motion/Second: | Gardner/Mouawad |
| Ayes: | Gardner, Harrison, Mouawad, Tule |
| Nays: | None |
| Abstentions: | None |
| Absent: | None |

5. COMMITTEE DISCUSSION/ACTION ITEMS

A. INLAND EMPIRE BRINE LINE RATE RESOLUTION (PA24#2022.5)

David Ruhl provided a presentation on the Inland Empire Brine Line Rate Resolution 2022-9, contained in the agenda packet on pages 19-31. The Brine Line Rate components are Flow, Biochemical Oxygen Demand (BOD) Total Suspended Solids (TSS) and the fixed charges for pipeline, treatment, and disposal capacity owned. The proposed rates have been calculated using

the financial model prepared in 2018 and are based on the approved two-year budget (FY 2021-22 and FY 2022-23). SAWPA staff reviewed the current and proposed budget expenditures and revenues to ensure the rates are consistent and in-line with the budget assumptions and goals when the budget was approved.

Summary of FY 2021-22 (Current) Rates and FY 2022-23 Proposed Rates

| <i>Fiscal Year</i> | <i>Flow (MG)</i> | <i>BOD/1,000 lbs.</i> | <i>TSS/1,000 lbs.</i> | <i>Fixed Pipeline*</i> | <i>Fixed T&D*</i> |
|----------------------------|------------------|-----------------------|-----------------------|------------------------|-----------------------|
| Current FY 2021-22 | \$1,018 | \$329 | \$460 | \$6,654 | \$13,505 |
| Proposed FY 2022-23 | \$1,049 | \$353 | \$520 | \$6,654 | \$13,505 |

*Fixed pipeline and Fixed Treatment and Disposal (T&D) charges are per million gallons (MG) per month.

SAWPA received the proposed Brine Line rates from OC San (Flow, BOD, TSS) that include a 9.97% increase in their charges from last fiscal year, due to an increase in their treatment and disposal budget. Although this increase is significant, SAWPA is able to maintain a rate increase of 3.0% for Flow and no change in the rate for Fixed Pipeline and Fixed Treatment and Disposal. Since BOD and TSS are pass through costs the rate for BOD will increase 7.3% and the rate for TSS will increase 13.0%. As part of the Brine Line Rate resolution, planned rates for FY 2023-24 are presented to assist Member Agencies in their budget process for next fiscal year. Since these rates are presented for “planning” purposes only, they require PA 24 and Commission approval prior to the beginning of the next fiscal year (July 1, 2023). OC San has also provided planned rates for FY 2023-24. OC San’s planned charges include a 5.2% increase in their charges due to an increase in their treatment and disposal budget. SAWPA’s Planned rates for FY 2023-24 will include a 5.0% increase in the flow component and will include a 5.2% increase in the BOD and TSS rate to match OC San’s increase. Fixed charges (pipeline, treatment, and disposal) are expected to remain the same.

The truck disposal rates will continue to be based on two (2) tiers: a Brine Tier and a Non-Brine Tier. These charges remain unchanged from FY 2021-22. The current FY 2021-22 and proposed rates for FY 2022-23 for indirect discharger rates remain the same, as well as the proposed permit fees. The proposed Capacity Lease rates for FY 2022-23 remain unchanged from the rates from FY 2021-22.

Vice Chair Gardner asked if there has been communication with our customers or member agencies. David Ruhl noted that the customers are aware and there have been discussions with our member agencies in regard to the proposed rates. Committee Member Mouawad questioned the adjustments to the monthly fixed treatment and fixed pipeline though no increases to the BOD and TSS surcharge, is that a function of OC San’s cost? David Ruhl noted that it is discretionary based on site, not related to the increase in fees from OC San.

MOVED, to recommend approval by the SAWPA Commission of Resolution No. 2022-9 establishing the Fiscal Year 2022-23 Inland Empire Brine Line Rates.

| | |
|----------------|------------------------------------------------|
| Result: | Adopted by Roll Call Vote (Unanimously) |
| Motion/Second: | Gardner/Mouawad |
| Ayes: | Gardner, Harrison, Mouawad, Tule |
| Nays: | None |
| Abstentions: | None |
| Absent: | None |

B. INLAND EMPIRE BRINE LINE PIPELINE CLEANING SERVICES (PA24#2022.6)

David Ruhl provided a presentation on the Inland Empire Brine Line Pipeline Cleaning Services, contained in the agenda packet on pages 35-41. SAWPA relies on outside service providers to perform pipeline cleaning activities on the Brine Line. A Request for Proposals (RFPs) is issued every two (2) years for pipeline cleaning activities. The current Task Order with Downstream Services expires on June 30, 2022. In April, the PA 24 Committee authorized staff to issue an RFP for line cleaning services. A total of four (4) proposals were received on May 10, 2022; Downstream Services, Inc., Houston & Harris, Inc., Innerline Engineering, Inc., and Pro-Pipe, Inc.

Based on the evaluation of the proposals, costs, qualifications, and SAWPA's experience with working with Innerline, most recently on the Upper Reach IVA pipeline cleaning efforts, it is recommended to award a contract to Innerline Engineering for pipeline cleaning services in the amount not-to-exceed \$264,880. The Task Order is for a period of two years (through June 30, 2024) commencing on July 1, 2022, with an option to renew for an additional year (through June 30, 2025).

MOVED, to authorize the General Manager to issue Task Order INN240-05 to Innerline Engineering, Inc., for Brine Line Pipeline Cleaning Services for a period of two (2) years of in amount not-to-exceed \$264,880.

| | |
|----------------|------------------------------------------------|
| Result: | Adopted by Roll Call Vote (Unanimously) |
| Motion/Second: | Gardner/Tule |
| Ayes: | Deshmukh, Gardner, Harrison, Mouawad |
| Nays: | None |
| Abstentions: | None |
| Absent: | None |

C. INLAND EMPIRE BRINE LINE MASTER PLAN (PA24#2022.7)

David Ruhl provided a presentation on the Inland Empire Brine Line Master Plan, contained in the agenda packet on pages 59-70. A Master Plan is a long-term planning document that addresses facility needs over a defined planning period. The purpose of the Brine Line Master Plan is to determine how best to manage and implement the growth and expansion of the Brine Line to best serve the watershed and our Member Agencies. The Brine Line Master Plan scope of work consists of coordination amongst the Member Agencies, City and County Planning/Development Departments to review relevant existing plans and do a Brine Line System Analysis to update and calibrate existing hydraulic model, do an evaluation of the existing Brine Line System and determine the critical infrastructure and evaluate potential system improvements to the Brine Line, as well as a market analysis of future growth projects.

In August 2021, the PA 24 Committee directed staff to prepare a scope of work in collaboration with the Member Agencies and present to the PA 24 Committee for discussion and approval. In January 2022, an outline of the proposed Master Plan was developed and discussed with the Member Agency General Managers. In May 2022, a workshop with Member Agency staff was held to review and discuss the scope of work. Comments received were incorporated in the scope of work and a Request for Proposals (RFP) will be prepared and presented to the PA 24 Committee for approval. The proposed schedule for the RFP is as follows:

- PA 24 Committee direct staff to prepare RFP June 2022
- Incorporate PA 24 Committee feedback/comments June 2022
- PA 24 Committee direct staff to issue RFP July/August 2022

- Receive proposals / conduct interviews October 2022
- Select consultant and recommend award to PA 24 Committee November 2022

Committee Member Mouawad commended SAWPA staff on all the efforts and noted that he strongly believes this Master Plan is needed to better understand the needs of the Brine Line going into the future and the way the scope of work is laid out is a fairly comprehensive approach. He agrees on having regular workshops with the member agency staff to provide feedback since there is a lot of experience and knowledge relative to various sections of the Brine Line. Committee Member Gardner noted that it is an important effort, and we will be able to serve our customers better if we plan, rather than react to circumstances, and expressed his full support.

MOVED, to review the Inland Empire Brine Line Master Plan scope of work and direct staff to prepare a Request for Proposals for the preparation of the Inland Empire Brine Line Master Plan.

| | |
|----------------|------------------------------------------------|
| Result: | Adopted by Roll Call Vote (Unanimously) |
| Motion/Second: | Gardner/Mouawad |
| Ayes: | Deshmukh, Gardner, Harrison, Mouawad |
| Nays: | None |
| Abstentions: | None |
| Absent: | None |

6. INFORMATIONAL REPORTS

Recommendation: Receive and file the following oral/written reports/updates.

A. BRINE LINE FINANCIAL REPORT – FEBRUARY 2022

Presenter: Karen Williams

B. BRINE LINE FINANCIAL REPORT – MARCH 2022

Presenter: Karen Williams

7. REQUEST FOR FUTURE AGENDA ITEMS

There were no requests for future Agenda items.

8. CLOSED SESSION

There was no Closed Session.

9. ADJOURNMENT

There being no further business for review, Chair Harrison adjourned the meeting at 11:21 a.m.

Approved at a Regular Meeting of the Project Agreement 24 Committee on August 2, 2022.

T. Milford Harrison, Chair

Attest:

Sara Villa, Clerk of the Board



PROJECT AGREEMENT 24 COMMITTEE
Inland Empire Brine Line
SPECIAL MEETING MINUTES
JUNE 21, 2022

COMMITTEE MEMBERS PRESENT

T. Milford Harrison, Chair, San Bernardino Valley Municipal Water District Governing Board
Mike Gardner, Vice Chair, Western Municipal Water District Governing Board
Joe Mouawad, Eastern Municipal Water District General Manager
Marco Tule, Inland Empire Utilities Agency Governing Board

ALTERNATE COMMITTEE MEMBERS PRESENT [Non-Voting]

David Slawson, Eastern Municipal Water District
Shivaji Deshmukh, Inland Empire Utilities Agency
Gil Botello, San Bernardino Valley Municipal Water District

STAFF PRESENT

Jeff Mosher, Karen Williams, Edina Goode, David Ruhl, John Leete, Marie Jauregui, Sara Villa, Haley Mullay, Zyanya Ramirez, John Leete, Jessica McDermott

OTHERS PRESENT

Andrew D. Turner, Lagerlof, LLP; Nick Kanetis, Eastern Municipal Water District; Derek Kawaii, Western Municipal Water District; Jeremy Metts, Anaergia

1. CALL TO ORDER| PLEDGE OF ALLEGIANCE

The Special meeting of the PA 24 Committee was called to order at 11:08 a.m. by Chair Harrison on behalf of the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California. Pursuant to the provisions of AB 361, this meeting was conducted virtually. All votes taken during this meeting were conducted via oral roll call.

2. PUBLIC COMMENTS

There were no public comments; there were no public comments received via email.

3. ITEMS TO BE ADDED OR DELETED

There were no added or deleted items.

Chair Milford Harrison recessed the meeting at 11:10 a.m. for Closed Session.

4. CLOSED SESSION

A. CONFERENCE WITH LEGAL COUNSEL – EXPOSURE TO LITIGATION – PURSUANT TO GOVERNMENT CODE SECTION 54956.9(d)(2)

Number of Potential Cases: One

Chair Milford Harrison resumed Open Session at 11:18 a.m. and Legal Counsel, Andy Turner announced that the Committee received a report from SAWPA staff and Counsel; no action was taken on Agenda Item No. 4.A.

5. COMMITTEE DISCUSSION/ACTION ITEMS

A. NEW LATERAL CONSTRUCTION AND COST SHARE AGREEMENT (PA24#2022.8)

David Ruhl provided a presentation on the Inland Empire Brine Line New Lateral Construction and Cost Share Agreement, contained in the agenda packet on pages 9-17. In July 2020, Rialto Bioenergy Facility, Inc. (RBF) obtained treatment and disposal capacity rights in the Brine Line through SAWPA’s capacity lease program. In December 2020, Valley District and SAWPA, issued a wastewater discharge permit (permit) to RBF allowing discharge to the Brine Line from their facility. RBF’s permit included a special condition that allows RBF to discharge temporarily into the Brine Line Reach IV-E siphon until RBF designs and constructs a new lateral to the Brine Line with a connection downstream of the siphon. RBF approached SAWPA on the possibility of a cost share arrangement for construction of the new lateral that would benefit SAWPA and the operation and maintenance of the Brine Line. Upon extensive investigation by SAWPA staff and collaboration with Valley it was determined that the new lateral, if owned and operated by SAWPA, can provide opportunities for future dischargers to connect to the Brine Line and other benefits to the Brine Line such as operational flexibility, avoided maintenance costs and increased reliability by minimizing disruptions to upstream dischargers during maintenance or emergency events.

The estimated construction and design costs for an 8-inch lateral is \$1,628,000 and for a 12-inch lateral is \$1,862,000. Based on these estimated construction costs, the cost share for an 8-inch lateral and 12-inch lateral is as follows:

| Lateral Size | SAWPA Costs (4.5%)* | Valley District Costs (13.5%)* | RBF Costs (82%) | Total Costs |
|--------------|------------------------|-----------------------------------|--------------------|-------------|
| 8” | \$81,460 | \$244,380 | \$1,302,160 | \$1.628M |
| 12” | \$130,960 | \$392,880 | \$1,302,160** | \$1.826M |

*Also includes additional design and bidding costs.

** RBF would not pay additional construction costs for upsizing to 12-inch lateral.

RBF will pay their cost share in five (5) installments, first payment will be due upon execution of agreement, and four (4) annual installments thereafter. RBF is to pay 3% interest on the unpaid balance and RBF parent company (Anaergia) will provide payment Guaranty. The RBF Discharger Lease Agreement will be amended. The proposed schedule for design, construction and PA 24 Committee actions is as follows:

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • PA 24 Committee approve Cost Share Agreement • SAWPA Prepare Plans and Specifications • PA 24 Committee Directs Staff to Advertise for Bids • Bid Process • PA 24 Committee Awards Construction Contract (Decision to construct 8” or 12” Lateral) • Construction | <p>June 2022</p> <p>July 2022 – October 2022</p> <p>November 2022</p> <p>November 2022 – January 2023</p> <p>February 2023</p> <p>February 2023 – June 2023</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

MOVED, to authorize the General Manager to execute the following:

1. New Lateral Construction and Cost Share Agreement with San Bernardino Valley Municipal Water District (Valley) and Rialto Bioenergy Facility Inc. (RBF) and to proceed accordingly, and
2. Amendment No. 1 to the Inland Empire Brine Line Lease Discharger Agreement with RBF.

| | |
|----------------|------------------------------------------------|
| Result: | Adopted by Roll Call Vote (Unanimously) |
| Motion/Second: | Harrison/Gardner |
| Ayes: | Gardner, Harrison, Mouawad, Tule |
| Nays: | None |
| Abstentions: | None |
| Absent: | None |

6. INFORMATIONAL REPORTS

Recommendation: Receive and file the following oral/written reports/updates.

A. BRINE LINE FINANCIAL REPORT – APRIL 2022

Presenter: Karen Williams

7. REQUEST FOR FUTURE AGENDA ITEMS

There were no requests for future Agenda items.

8. ADJOURNMENT

There being no further business for review, Chair Harrison adjourned the Special meeting at 11:32 a.m.

Approved at a Regular Meeting of the Project Agreement 24 Committee on August 2, 2022.

T. Milford Harrison, Chair

Attest:

Sara Villa, Clerk of the Board

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PA 24 COMMITTEE MEMORANDUM NO. 2022.8

DATE: August 2, 2022

TO: Project Agreement 24 Committee
(Inland Empire Brine Line)

SUBJECT: Inland Empire Brine Line Master Plan

PREPARED BY: David Ruhl, Engineering Manager

RECOMMENDATION

That the Project Agreement 24 Committee direct staff to release a Request for Proposals (RFP) for Professional Services for the preparation of the Inland Empire Brine Line Master Plan.

DISCUSSION

A Master Plan is a long-term planning document that addresses facility needs over a defined planning period. The purpose of the Brine Line Master Plan is to determine how best to manage and implement the growth and expansion of the Brine Line to best serve the watershed and our Member Agencies.

In August 2021, the PA 24 Committee directed staff to prepare a scope of work in collaboration with the Member Agencies and present to the PA 24 Committee for discussion and approval. In January 2022, an outline of the proposed Master Plan was developed and discussed with the Member Agency General Manager's. In May 2022, a workshop with Member Agency staff was held to review and discuss the scope of work. Comments received were incorporated in the scope of work. In June 2022, SAWPA staff presented the Master Plan scope of work to the PA 24 Committee for discussion and approval. The PA 24 Committee directed SAWPA staff to prepare the Master Plan RFP. A copy of the RFP is attached for your information. A general outline and description of the scope of work is described below.

SCOPE OF WORK

Brine Line System Analysis. Review, update and calibrate the existing Brine Line hydraulic model to fully represent the existing Brine Line system.

Existing Brine Line System Evaluation. Use the calibrated hydraulic model to evaluate existing system conditions to determine critical infrastructure and necessary improvements. Conduct a reliability and redundancy analysis to investigate and identify the potential for system enhancements that will prevent or minimize customer outages.

Market Analysis and Future Growth Projections. Identify new customers and their associated capacity needs. New customer opportunities would include those industries that use a large volume of water, and the processes introduce or concentrate TDS. Potential future customers may be identified through, existing customers growth, coordination with Member Agencies, City and County Planning/Development Departments, land use analysis, POTWs and commercial realtors.

Future Brine Line System Evaluation. Use the calibrated hydraulic model to perform analyses for the future Brine Line system and to identify potential hydraulic issues and critical

elements within the Brine Line system. Perform ultimate capacity scenarios and resiliency scenarios.

Brine Line Future Facilities, Improvements, and Growth Areas. Future facilities may include system improvements for growth, capacity deficiencies, resiliency, and expansion of the Brine Line system to potential growth areas. Planning level costs are included for system improvement and expansion. Specific criteria will be developed to determine when to include a project in the capital improvement program.

Capacity Management (30 MGD System), and Long-Term Planning Efforts. Investigate and identify the potential for system enhancements that will provide SAWPA with the ability to manage the capacity in the Brine Line to 30 MGD, including brine storage, flow reduction/brine concentration, additional treatment opportunities, mainline flow recorders and SCADA.

Multi-Use Benefits for the Future. Identify and evaluate the potential for multi-use benefits for the Brine Line system.

Policy Considerations. Address questions that may necessitate the need to update or initiate new policy considerations such as lateral ownership, capacity buy-back program and how to pay for laterals, projects, and system expansion.

The proposed schedule for the RFP process is as follows:

- | | |
|---------------------------------------------------------------|--------------------|
| • PA 24 Committee direct staff to release RFP | August 2, 2022 |
| • Release RFP on PlanetBids and SAWPA.org | August 3, 2022 |
| • Pre-proposal meeting | August 25, 2022 |
| • Receive proposals | September 22, 2022 |
| • Conduct interviews | October 5, 2022 |
| • Select consultant and recommend award To PA 24 Committee | November 1, 2022 |

RESOURCE IMPACTS

Sufficient funds for consultant services are included in the Fiscal Year 23 Budget Fund 240 (Brine Line Enterprise).

Attachments:

1. PowerPoint Presentation
2. Master Plan RFP



Inland Empire Brine Line Master Plan

David Ruhl, Engineering Manager
Project Agreement 24 Committee
August 2, 2022 | Item No. 5.A.

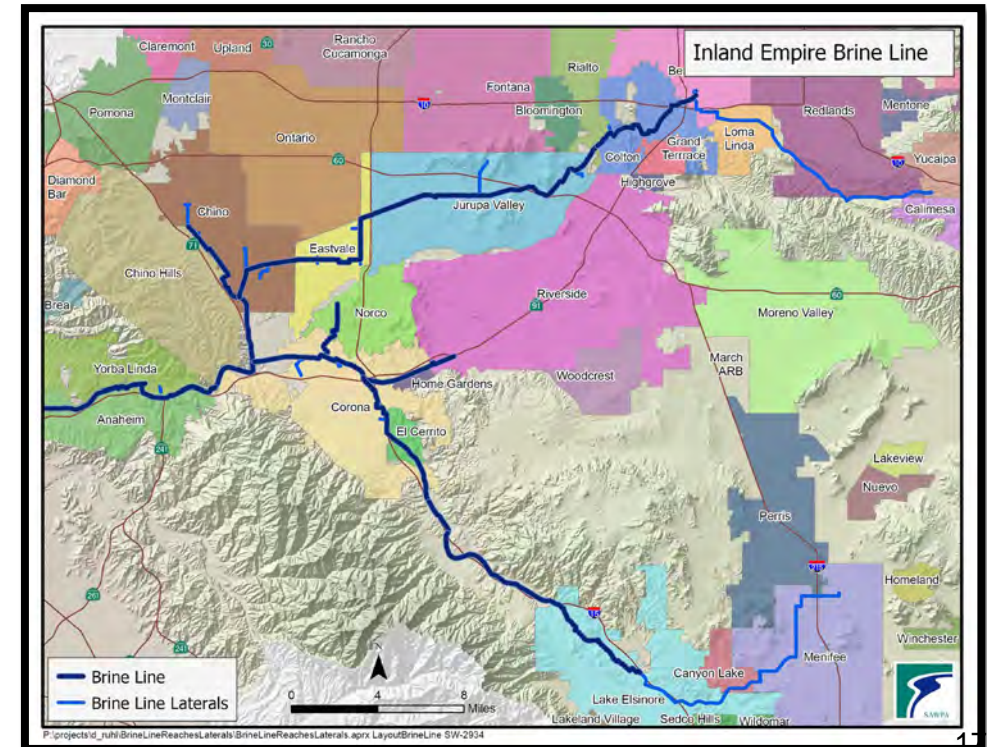
Brine Line Master Plan

Recommendation:

- Direct staff to release a RFP for the Professional Engineering Services for the preparation of the Inland Empire Brine Line Master Plan.

Brine Line Master Plan

- Long-term planning document that addresses facility needs
- Purpose is to determine how to manage and implement the growth and expansion of the Brine Line to best serve the watershed and our Member Agencies
- Benefits
 - Consistency in decision making
 - Ability to make informed decisions
 - Focus resources and prioritize projects
 - Promote economic development
 - Maintain System Reliability
 - Accommodate future growth
 - Meet future regulatory requirements



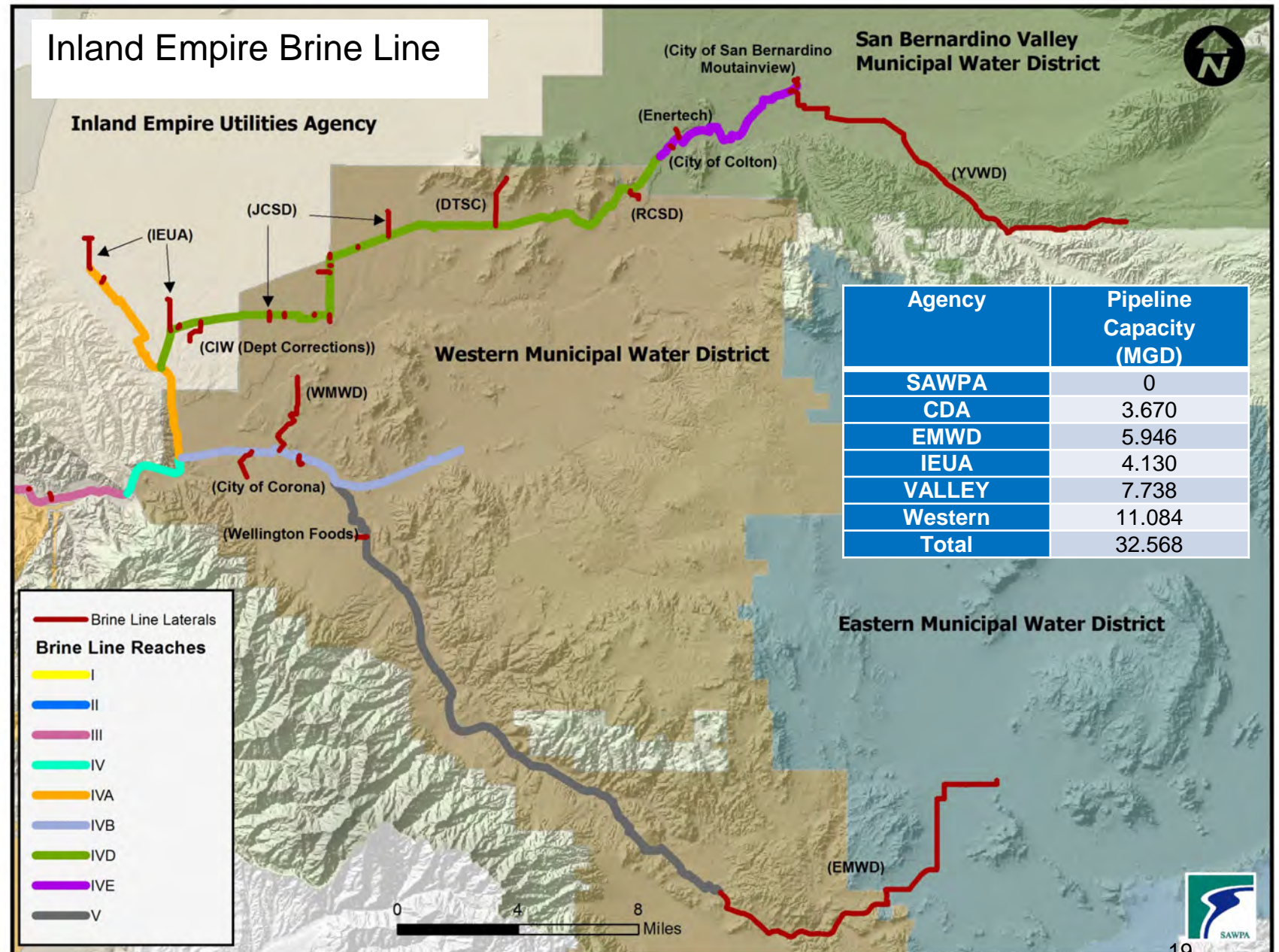
Brine Line Master Plan – Scope of Work

- Coordination with Member Agencies, City and County planning/development Departments
 - Review relevant documents existing plans
- Brine Line System Analysis
 - Update and calibrate existing hydraulic model
- Existing Brine Line System Evaluation
 - Evaluate existing system conditions
 - Determine critical infrastructure evaluate potential system improvements to sustain temporary outages of the Brine Line



Scope of Work – cont.

- Future Brine Line System Evaluation
 - Ultimate capacity
 - Resiliency
 - Member Agency pipeline capacity
 - Growth areas



Scope of Work – cont.

Market Analysis and Future Growth Projections

- Identify new customer opportunities
 - Existing customers
 - County and City Planning/Development Departments
 - Land use analysis
 - Publicly owned treatment works
 - Commercial realtors
- Identify future growth areas



Industries that disposal of salty wastewater:

- Biotech Manufacturing
- Electronic Parts Manufacturers
- Medical Supply Manufacturing
- Computer Chip Manufacturers
- Commercial Laundries
- Food and Beverage Processing
- Groundwater desalters
- Ion Exchange Plants
- Power Plants
- Water Reclamation Facilities

Scope of Work – cont.

- Brine Line future facilities, improvements and growth areas
 - System improvement for growth
 - Capacity deficiencies
 - Resiliency
 - Potential growth areas
 - Planning level cost estimates
 - Develop criteria to evaluate further, add to CIP



Scope of Work – Cont.

- Capacity management (30 MGD System), and long-term planning efforts
 - Investigate potential system enhancements to manage capacity (30 MGD)
 - Brine Storage
 - Brine concentration facilities (centralized/regional)
 - Mainline flow recorders / SCADA
 - Investigate treatment opportunities
 - PFAS?, BOD/TSS?
- Multi-use benefits for the future
 - Identify and evaluate potential multi-use benefits
 - In-line hydroelectric system as source of renewable energy

Scope of Work – cont.

- Policy Considerations
 - Lateral ownership
 - Capacity buy-back
 - How to pay for laterals, projects, and system expansion
- Draft and Final Master Plan



Schedule

RFP Process

- PA 24 Committee direct staff to release RFP August 2, 2022
- Release RFP on PlanetBids and SAWPA.org August 3, 2022
- Pre-proposal meeting August 25, 2022
- Receive proposals September 22, 2022
- Conduct interviews October 5, 2022
- Select consultant and recommend award to PA 24 Committee November 1, 2022

Brine Line Master Plan

Recommendation:

- Direct staff to release a RFP for the Professional Engineering Services for the preparation of the Inland Empire Brine Line Master Plan.

Questions?

SANTA ANA WATERSHED PROJECT AUTHORITY

REQUEST FOR PROPOSALS

For

Inland Empire Brine Line Master Plan

The Santa Ana Watershed Project Authority (SAWPA) shall receive proposals in response to this Request for Proposals (RFP) until **Thursday, September 22nd at 3:00 p.m.**

Proposals must be submitted and uploaded onto PlanetBids at: <https://pbsystem.planetbids.com/portal/52676/portal-home> as a complete electronic/PDF file by the date and time herein above set forth, along with the Fee Proposal, which shall be submitted as a PDF and Microsoft Excel file. SAWPA will not accept hand-delivered proposals.

Proposals received after the above specified date and time WILL NOT be accepted. A pre-proposal meeting will be held via zoom at 1:30 pm on August 25, 2022, attendance is highly encouraged.

Prospective Offerors are required to put all RFP questions, clarifications, or comments through PlanetBids' Q&A system at <https://pbsystem.planetbids.com/portal/52676/portal-home> and/or in writing to David Ruhl, P.E., Executive Manager of Engineering and Operations (druhl@sawpa.org) or (951) 354-4223. Questions, clarifications, or comments must be received no later than September 14th at 4:00 pm. The Offerors must verify that SAWPA received the e-mail transmission.

1) Introduction

Agency Background

The Santa Ana Watershed Project Authority (SAWPA) was formed in 1972 to plan and build facilities to protect water quality in the Santa Ana River Watershed. SAWPA is a Joint Powers Authority (JPA) comprised of five (5) member agencies: Eastern Municipal Water District (EMWD), Inland Empire Utilities Agency (IEUA), Orange County Water District (OCWD), San Bernardino Valley Municipal Water District (SBVMWD), and Western Municipal Water District (WMWD). To learn more about SAWPA please visit www.sawpa.org.

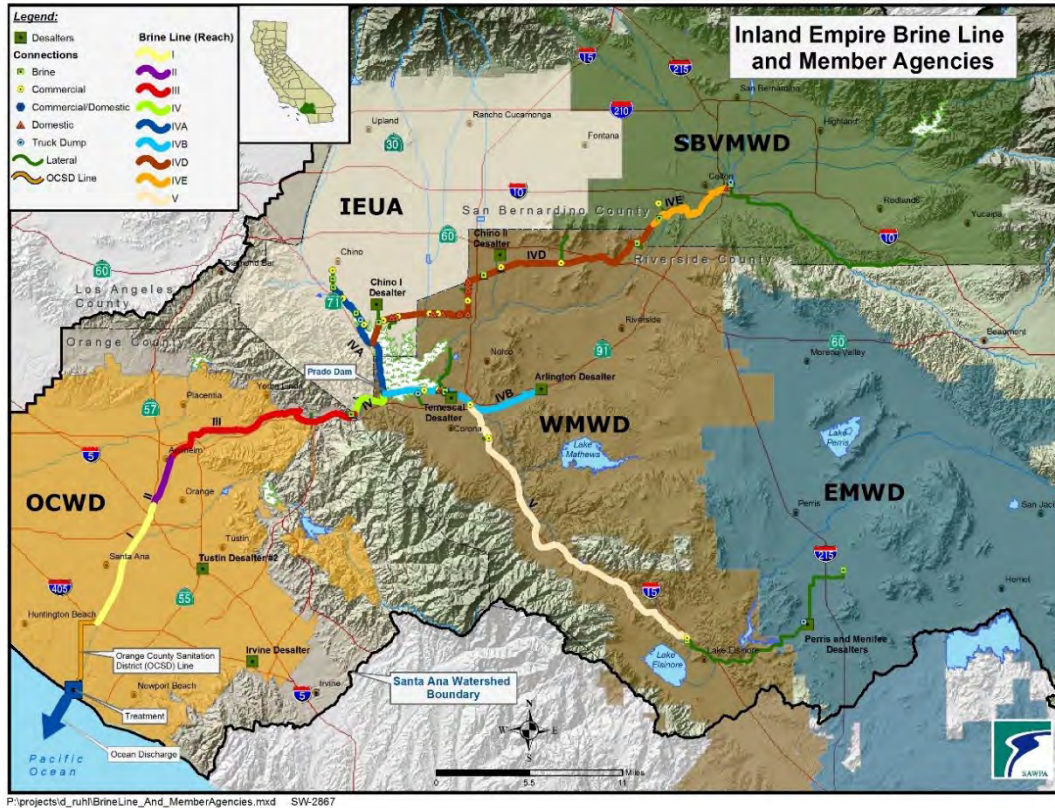
Background

The Inland Empire Brine Line (Brine Line) is an important facility for the removal of salt from the watershed and the ultimate goal of achieving salt balance. The Brine Line transports highly saline wastewater from Inland areas to the ocean for discharge after treatment by Orange County Sanitation District (OC San) at its Huntington Beach plant, see Figure 1.1. Removing salt through the Brine Line system will ultimately allow the watershed to reach salt balance – a key watershed goal and indicator of sustainability.

SAWPA owns either capacity rights in or owns outright approximately 93 miles of pipeline referred to as the Inland Empire Brine Line (Brine Line) in Riverside and San Bernardino Counties and the Santa Ana River Interceptor (SARI) within Orange County. The Brine

Line was initially constructed to provide for highly saline, non-domestic discharges in order to

Figure 1.1: Inland Empire Brine Line and Member Agency Boundaries



protect the inland water quality in the upper Santa Ana River Watershed. Figure 1.1 provides a graphic representation of the Brine Line and its various reaches, 1 through 5.

Discharge to the Brine Line is made through either a direct connection (Direct Discharger) or by hauling to one of four collection stations (Indirect Dischargers). All facilities discharging to the Brine Line require a discharge permit.

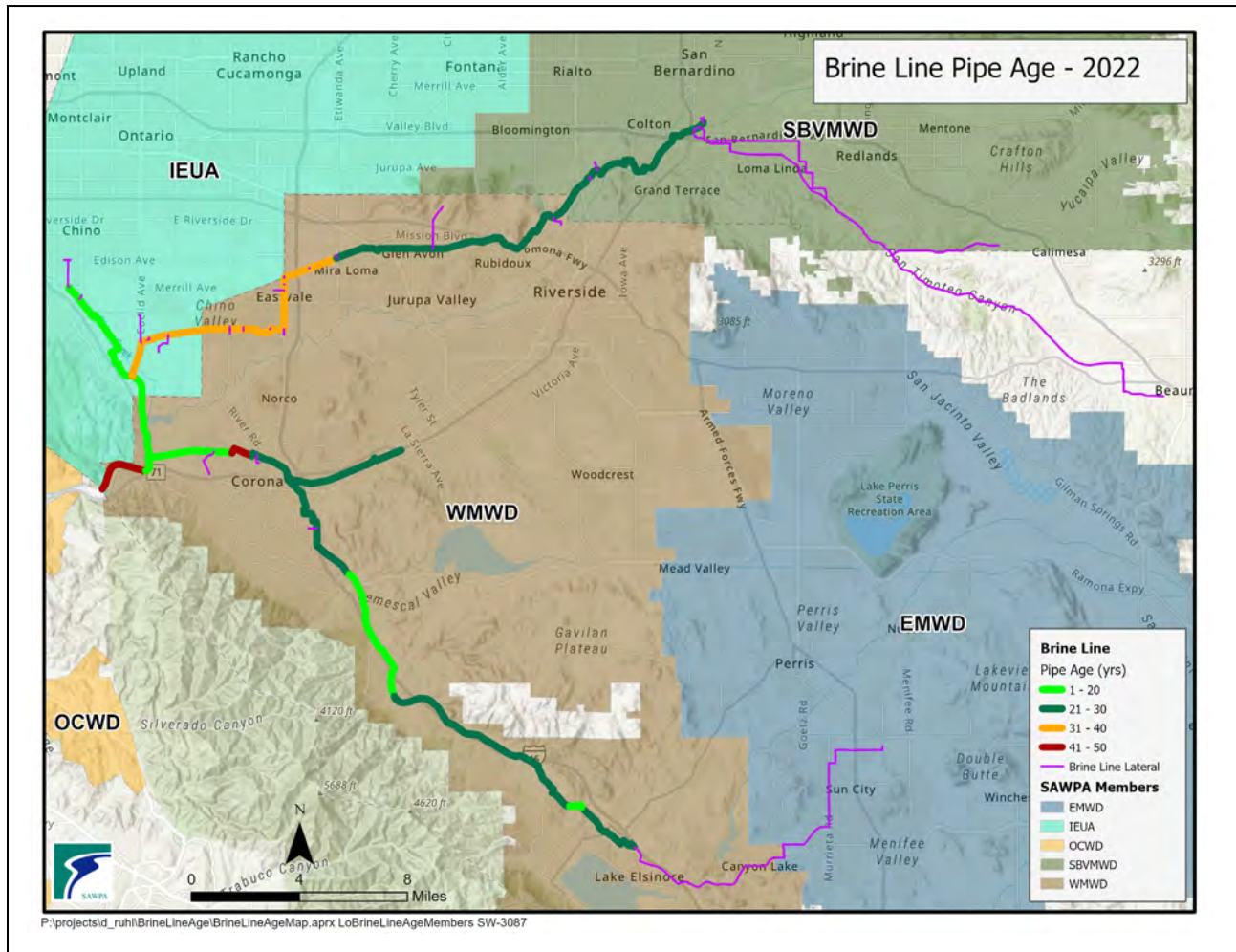
Brine Line Facilities

Reaches IV, IV-A, IV-B, IV-D, IV-E and V include approximately 73 miles of pipeline ranging from 16 – 48 inches in diameter and several different pipe materials. The estimated asset value of the Brine Line is \$390 Million (2021 dollars). Table 1.1 shows the pipeline material, length and age of the Brine Line by Reach. The pipe making up the Brine Line is of varying ages, with the oldest section of the line more than 45 years and the newest about 20 years old. Figure 1.2 provides a graphic representation of the Brine Line by age of the system.

Table 1-1 Brine Line Reaches Summary

| Reach | Material | Length (Feet) | Age (Years) |
|-----------------------------------|------------------------------------------|---------------|-------------|
| Reach IV (42 to 48-inch) | | | |
| | RCP (PVC Lined) | 12,500 | 46 |
| Total Reach IV | | 12,500 | |
| Reach IV-A (18 to 48-inch) | | | |
| | RCP (PVC Lined) | 41,500 | 39 |
| | CMLC Steel (24 and 18-inch Siphons Only) | 150 | 39 |
| Total Reach IV-A | | 41,650 | |
| Reach IV-B (16 to 48-inch) | | | |
| | RCP (PVC Lined) | 16,250 | 39 |
| | VCP | 5,500 | 39 |
| | PVC | 32,000 | 39 |
| Total Reach IV-B | | 54,000 | |
| Reach IV-D (36 to 42-inch) | | | |
| | RCP (PVC Lined) | 62,700 | 29 |
| | VCP | 43,800 | 29 |
| | HDPE | 2,100 | 29 |
| Total Reach IV-D | | 108,600 | |
| Reach IV-E (36-inch) | | | |
| | VCP | 4,300 | 28 |
| | RCP | 34,000 | 28 |
| Total Reach IV-E | | 38,700 | |
| Reach V (24 to 30 inch) | | | |
| | PVC | 74,000 | 20 |
| | HDPE | 47,000 | 20 |
| Total Reach V | | 121,000 | |
| Total | | 379,950 | |

Figure 1.2: Inland Empire Brine Line Pipe Age

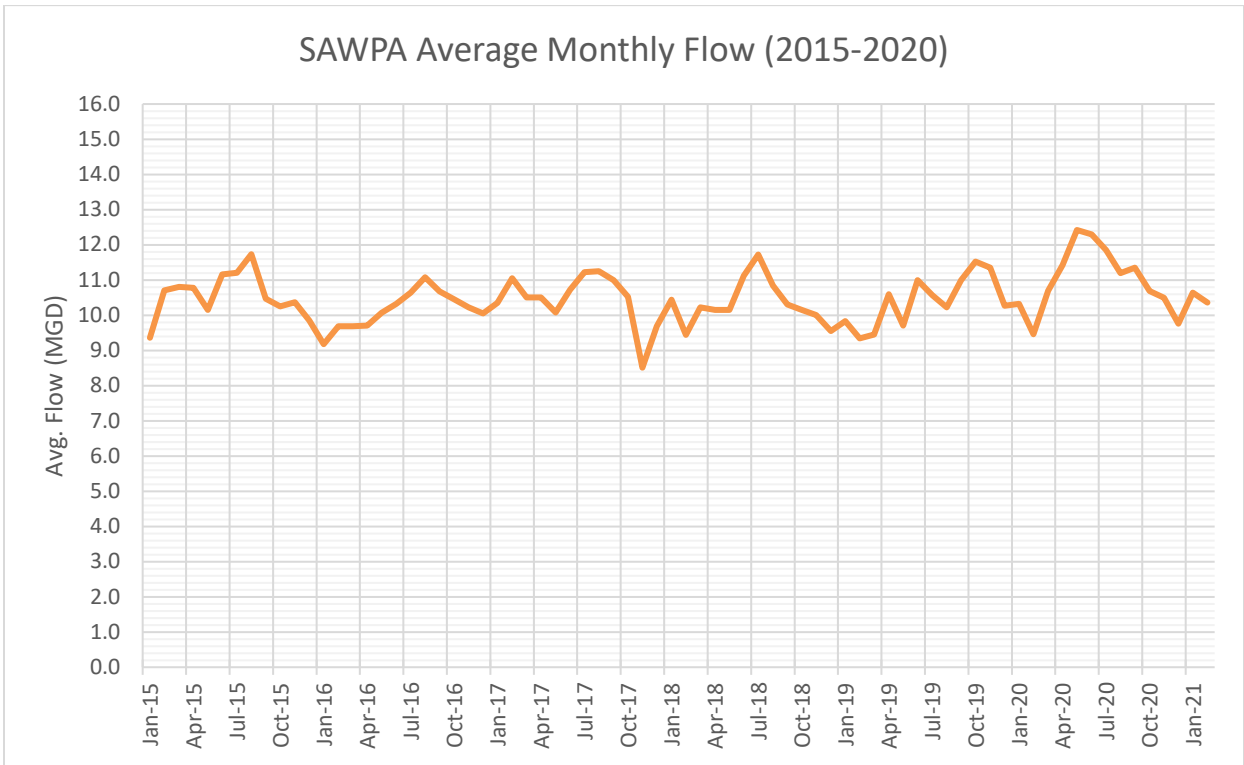


Existing Flows and Customers (Dischargers)

The Brine Line system is designed to carry 30 million gallons per day (MGD) of high saline wastewater. The current daily discharge is approximately 11 million gallons. Figure 1.3 shows the monthly average flows in the Brine Line from January 2015 through December 2020 as recorded at the OC San SARI Metering Station. Flows have averaged about 11 MGD for the past 6 years with several monthly lows around 9 MGD and monthly highs of up to 12 MGD.

Flows by discharger type are shown in Table 1.2. Potable water production includes groundwater desalination/desalters and Ion Exchange Plants and constitutes 78% of the total flow in the Brine Line.

Figure 1.3: SAWPA Flow to OC San Monthly Average for 2015-2020



Currently, there are 48 customers using the Brine Line on a frequent ongoing basis. 32 customers have a direct connection to the Brine Line and 16 are indirect customers that haul their Brine to one of four collection stations in the service area.

Table 1.2 – 2020 Flows by Discharger Type

| Flow Type | Average Daily Flow (MGD) | Percent of Total (%) |
|--------------------------|--------------------------|----------------------|
| Potable Water Production | 8.55 | 78 |
| Industrial | 1.21 | 11 |
| Power Generation | 0.47 | 4 |
| Wastewater Desalination | 0.41 | 4 |
| Domestic | 0.37 | 3 |
| Total | 11.02 | 100.00 |

Capacity Rights and Capacity Management

In general, the Brine Line pipeline is owned by SAWPA, and the capacity use rights are owned by the SAWPA Member Agencies and the Chino Basin Desalter Authority (CDA). The pipeline capacity can be sold by individual member agencies to other entities requiring capacity and having discharges that meet specific discharger requirements. The Member Agencies and CDA also own treatment and disposal capacity rights in the Brine Line System. Treatment and Disposal capacity represents a volume and strength of effluent that may be passed through the OC San treatment plant at Huntington Beach

before discharge to the Pacific Ocean. Table 1.3 summarizes the Brine Line pipeline Capacity Right and Treatment and Disposal Capacity right ownership.

Table 1.3 Pipeline Capacity Right and Treatment and Disposal Capacity Right

| Agency | Pipeline Capacity (MGD) | Treatment and Disposal Capacity (MGD) |
|---------------|--------------------------------|----------------------------------------------|
| SAWPA | 0 | 0 |
| CDA | 3.670 | 3.350 |
| EMWD | 5.946 | 3.548 |
| IEUA | 4.130 | 2.250 |
| VALLEY | 7.738 | 1.089 |
| Western | 11.084 | 6.763 |
| Total | 32.568 | 17.000 |

As additional dischargers are connected to the Brine Line continued capacity management efforts will be critical. It is likely that improvements will be necessary to accommodate future flows and eliminating peaks. Such improvements might include eliminating hydraulic choke points, increasing salt concentrations, and thus reducing flows and flow equalization to control peaks.

Services

The master planning efforts described herein will include a comprehensive analysis of SAWPA’s Brine Line. The Consultant’s services shall include the following tasks:

- Task 1: Project Management, Meetings, Workshops and Presentations
- Task 2: Data Collection and Review
- Task 3: Brine Line System Analysis
- Task 4: Existing Distribution System Evaluation
- Task 5: Future Brine Line System Evaluation
- Task 6: Market Analysis Future Growth Projections
- Task 7: Brine Line Future Facilities, Improvements, and System Expansion
- Task 8: Capacity Management (30 MGD System), and Long-Term Planning Efforts
- Task 9: Muti-use Benefits for the Future
- Task 10: Policy Considerations
- Task 11: Hydraulic Analysis Module (Optional)
- Task 12: Prepare Draft and Final Brine Line Master Plan Report

For a complete description of all required services and deliverables, please see Section 4.

2) Schedule

| | |
|--------------------|-----------------------------------------------------------|
| August 3, 2022 | Issue Request for Proposals |
| August 25, 2022 | Pre-proposal meeting (1:30 p.m.) |
| September 22, 2022 | Proposals due (3:00 p.m.) |
| October 5, 2022 | Interview panel conducts interview of top proposing firms |
| November 1, 2022 | Recommend Award |
| November 8, 2022 | Issue Notice to Proceed |

3) Proposal Instructions and Conditions

- a) **Pre-Contractual Expenses** - Pre-Contractual expenses are defined as expenses incurred by prospective bidders in:

- Preparing a proposal in response to the RFP
- Submitting that proposal to SAWPA
- Negotiating with SAWPA in any matter related to this RFP, proposal, and/or contractual agreement
- Any other expenses incurred by the prospective bidder prior to the date of an executed contract

SAWPA will not, in any event, be liable for any pre-contractual expenses incurred by any prospective bidder. In addition, no prospective bidder shall include any such expenses as part of the price proposed to perform the requested services.

- b) **Authority to Withdraw RFP and/or Not Award Contract** – SAWPA reserves the right to withdraw the RFP at any time without prior notice. Further, SAWPA makes no representations that any agreement will be awarded to any prospective bidder responding to this RFP. SAWPA expressly reserves the right to postpone the opening of proposals for its own convenience and to reject any and all proposals in response to this RFP without indicating any reasons for such rejection(s).
- c) **Selection of Multiple Proposals** – Due to the widely varied geographic area and technical requirements, SAWPA has found teams of consultants to be very effective in providing the technical expertise and personnel required to perform services for the Brine Line. Therefore, SAWPA reserves the right to select more than one prospective firm to provide services for all or part of the proposed scope of work.
- d) **Right to Reject Proposal** – SAWPA reserves the right to reject any or all proposals submitted. Any award made for this engagement will be made to the firm/s, which, in the opinion of SAWPA, is best qualified to perform the services and represents the best value and effectiveness.
- e) **Discrepancies in Proposal Documents** – Should prospective firms find discrepancies in, or omissions from the RFP, or if the intent of the RFP is not clear, and if provisions of the specifications restrict any prospective firm from proposing, they may request in writing that the deficiency(s) be modified. Such request must be received by SAWPA at least ten (10) working days before the proposal due

date. All registered firms will be notified by addendum of any approved changes in the request for proposal documents.

- f) **Oral Statements** - SAWPA is not responsible for oral statements made by any of its employees or agents concerning the RFP. If the prospective firm requires specific information, a written request must be submitted to SAWPA.
- g) **Conflict of Interest** – The Consultant shall review their past, current or proposed work with agencies or firms having a significant interest in the Brine Line to verify a conflict of interest or the appearance of a conflict will not occur.

4) **Scope of Work**

The scope of work will include, but not be limited to the following tasks:

- a) **Task 1: Project Management, Meetings, Workshops and Presentations.** Consultant shall provide Project Management throughout the duration of the Project, which includes planning and monitoring budget/schedule, reviewing and submitting monthly invoices, and coordination with SAWPA staff. Consultant shall assign a dedicated Project Manager to the project. This person should not be replaced without written approval by SAWPA.

The Consultant shall provide the following Project Management services for all project tasks.

- i) **Project Schedule and Status Reports.** Provide a project schedule in MS Project software, organized by task, with milestone deliverables clearly identified. Presentation and review of the work schedule will be done at the kickoff meeting.

Submission of monthly progress reports shall include work completed, upcoming work, project issues, budget, schedule status, potential changes, and other important project information.

Submission of monthly invoices that document the labor-hours and the billing rates for staff for each task, and any direct costs. A summary with budget spent, budget remaining, as well as current and previous billing period invoicing should also be included for each task.

Quality Control (QC) – the Consultant will be required to develop a project specific Quality Management Plan (QMP) that will address the processes, procedures, and personnel engaged in quality control. The Consultant shall establish and monitor effective implementation of the quality requirements for the project. Consultant shall provide internal technical QA/QC on all calculations, written documents, and other submittals, prior to submittal to SAWPA.

- ii) **Project Meetings.** The Consultant's Project Manager and key staff shall attend (zoom/in person) the following project meetings and workshops. Consultant shall prepare and circulate a meeting agenda two (2) business days prior to each meeting and shall prepare and circulate meeting minutes

within three (3) business days after each meeting. Consultant shall prepare and facilitate a PowerPoint presentation for workshops and key project meetings. Consultant's Project Manager and key staff shall attend the workshops.

- (1) Kick-Off Meeting: Meet with SAWPA staff at Project kick-off. All of the Consultant's key project staff shall attend the meeting.
- (2) Status Meeting: Meet with SAWPA staff biweekly (zoom) for the duration of the Project to discuss general progress and address open issues. Assume a minimum of 18 status meetings will occur during the course of the project.
- (3) Workshops: Meet with SAWPA staff, Member Agency Staff, PA 24 Committee when needed. Assume a minimum of 8 workshops will occur during the course of the project.
- (4) Submittal Review Meetings: Meet with SAWPA staff to receive and reconcile comments on deliverables. Consultant shall assume a minimum of 8 review meetings will occur through the duration of the Project.
- (5) Meeting time reflected in the fee estimate shall include travel time, scheduling, preparation and coordination.

- b) **Task 2: Data Collection and Review.** The Consultant shall obtain and review all relevant studies, reports, exhibits, records, digital data and other documents that pertain to the Project. The Consultant shall work with SAWPA staff in coordinating with SAWPA member agencies and cities to obtain and review relevant documents and data related to master plans, and brine disposal needs within their jurisdiction.

The following is a list of documents and data the Consultant is expected to review as part of the project.

1. SAWPA, Santa Ana Regional Interceptor Hydraulic Model and Capacity Assessment, Kennedy/Jenks Consultants, January 2006
2. SAWPA, Santa Ana Regional Interceptor Market Analysis Final Draft, EEC, August 2009
3. SAWPA, Santa Ana Watershed Salinity Management Program, Phase 2 SARI Planning Technical Memorandum, CDM, Carollo, Wildermuth, May 2010
4. SAWPA, Santa Ana Watershed Salinity Management Program, Phase 3 SARI Operations Technical Memorandum, CDM, Carollo, Wildermuth, May 2010
5. EMWD Brine Management System, Basis of Design Report, CDM, March 2009
6. SAWPA, Criticality Assessment, Dudek, May 2021.
7. SAWPA, OERP, SAWPA December 2020.

The Consultant shall meet with SAWPA staff to determine what other data may be required by the Consultant as the Project develops, including but not limited to the following:

- Historical Brine Line demand data for Brine Line customers.

Deliverables: Consultant shall prepare and update a Data Request Tracking Log. A bibliography shall be maintained of all data collected and reviewed, which shall be included as an Appendix in the Final Report.

c) **Task 3: Brine Line System Analysis.** SAWPA currently uses the InfoSWMM Sewer Model. The model and model platform will be used as the basis for the Brine Line model development for this project. SAWPA desires to complete and calibrate the existing Brine Line model to fully represent the existing Brine Line system. The model shall be used to analyze the capacity of the existing system in its current condition and with future system improvements.

i) **Task 3.1 Review and Update Brine Line Hydraulic Model**

Consultant shall update SAWPA's existing model utilizing record drawings to include the following new system facilities constructed since the previous model update including:

- Beaumont Lateral
- Agua Mansa Lateral
- Reach V – Rehabilitation and Improvement Project – Phase 1 and 2

ii) **Task 3.2. Calibrate Brine Line Hydraulic Model**

Calibration of the hydraulic model shall be accomplished using an approach that will clearly verify the accuracy and ability of the model to replicate observed field conditions. The Consultant shall develop a comprehensive Model Calibration Plan describing in detail the steps involved in the calibration process, operational procedures, required equipment, and data collection means and methods. Equipment shall be procured by the Consultant. The model shall be calibrated under multiple operating conditions, which occur within the existing Brine Line System. The Calibration Plan will be submitted as a Technical Memorandum to SAWPA for review and acceptance prior to beginning calibration efforts. The most economical approach that produces accurate results is the preferred approach.

Calibration efforts will be coordinated by the Consultant and performed by both SAWPA operations staff and Consultant personnel. SAWPA will be primarily responsible for operation of the Brine Line as agreed upon while the Consultant observes test procedures and assists with data collection / recording. Consultant shall provide necessary field personnel to assist SAWPA and operations staff with the field calibration efforts.

Consultant shall demonstrate to SAWPA that the model is fully calibrated by use of graphic and tabular displays. All data used and adjustments made during the calibration process shall be thoroughly documented in the Hydraulic Model User's Manual developed for this Project (Task 3.3).

Deliverables:

Consultant shall provide a hydraulic model calibration plan describing in detail the steps involved in the calibration process, operational procedures, required equipment and/or supplemental monitoring instruments, field data to be collected, data collection means and methods, selection of monitoring locations, and identification of monitoring periods.

Consultant shall prepare and submit a technical memorandum summarizing the calibration data and results to SAWPA for review and comment. The calibration plan, data and results shall be included in the project Technical Appendix with all associated documentation.

iii) **Task 3.3: Develop Hydraulic Model User's Manual and conduct staff training**

The Consultant shall fully document the development of the hydraulic model and shall prepare a detailed User's Manual documenting the methodology and data used to create the model. The User's Manual shall be well structured, organized, and shall fully document the development of the hydraulic model such that SAWPA staff and other consultants can readily utilize, update and/or modify the model and perform additional system analyses in the future without the need to consult any other resource.

Consultant shall provide full documentation for the Brine Line hydraulic model summarizing the work of Tasks 3.1 and 3.2, including but not limited to the following:

- Method of creating hydraulic model elements (pipes, nodes, pumps, valves, etc.).
- Method and data source used for assigning elevation data to nodes, valves, etc.
- Method of assigning demands to nodes.
- Development of peaking factors.
- Method of assigning pipe roughness coefficient (C-factors) to the pipelines based on pipeline material.
- Procedure for adding new system features, updating existing features, and deleting abandoned features including but not limited to pipes, valves, pumps, customers and meters.
- Documentation for all hydraulic components (pumps, pressure regulation, flow control, storage, etc.) Procedure for updating, changing, and/or adding controls.
- Description of all scenarios created with identification of significant items unique to each scenario identified (i.e., future extensions, potential future customers, etc.)
- Methodology and documentation for each of the data sets, including fields imported from each dataset, used to evaluate the system for this study. List of data query and query sets created to assist in the model build. Procedure for modifying data sets for future analysis and importing data into the model.

- Calibration results that demonstrate the full calibration of the model. Include data used and adjustments made during the calibration process.
- Techniques used to check the data and what kinds of connections were made.
- Any other documentation and instructions Consultant deems necessary or beneficial.

SAWPA intends for staff to use the hydraulic model in the future. The Consultant shall include at minimum one (1) full day of training using the model to train and familiarize SAWPA staff on the operation of the hydraulic model and step-by-step process for future model updates. The Consultant shall provide general recommendations for SAWPA to address any unresolved issues. The training will be held at SAWPA's offices. SAWPA will be responsible for providing computers, InfoSWMM software licenses, and ArcGIS software licenses.

Deliverables:

Consultant shall provide hydraulic model and database, hydraulic model user's manual, and hydraulic model training described in this task. The hydraulic model user's manual shall be included in the project Technical Appendix with all associated documentation.

d) **Task 4: Existing Distribution System Evaluation**

The Consultant shall use the calibrated hydraulic model to perform analyses over the full range of existing demand patterns to identify potential hydraulic issues within the existing Brine Line sewer system. At a minimum, the following analyses should be performed by the Consultant:

- Evaluate existing system conditions to determine critical infrastructure and improvements necessary for the on-going operation of the overall Brine Line sewer system.
- Evaluate the near-term system conditions. Consider projects and flow conditions, for the next five years, with available data.
- Conduct a reliability and redundancy analysis based on near-term system conditions to investigate and identify the potential for system enhancements that will provide SAWPA with the ability to prevent or minimize customer outages. Such evaluations shall include but not be limited to; identifying potential storage sites and volumes necessary to sustain temporary outages of the Brine Line.

Deliverables:

The Consultant shall develop a Technical Memorandum including GIS-based maps/exhibits summarizing the results of this Task and analysis, which shall be submitted to SAWPA for review and comment. Results, findings and recommendations from this Task shall be incorporated into Task 7.

e) **Task 5: Future Brine Line System Evaluation**

The Consultant shall use the calibrated hydraulic model to perform analyses for the future Brine Line System and to identify potential hydraulic issues and critical elements within the Brine Line sewer system. At a minimum, the following analyses should be performed by the Consultant:

Ultimate Capacity Scenarios

- Maximum flow scenario for each Reach (Reach IV, IV-A Lower, IV-A Upper, IV-B Lower, IV-B Upper, Reach IV-D, Reach IV-E, Reach V.
- Maximum flow scenario for Brine Line System.
- Purchase pipeline capacity scenario to include pipeline capacity owned by each member agency as follows:

Table 5.1 Treatment and Disposal Capacity Right

| Agency | Pipeline Capacity (MGD) | Location |
|---------------|--------------------------------|-------------------------------|
| SAWPA | 0 | |
| CDA | 3.670 | Reach IV-D, IV-A, IV |
| EMWD | 5.946 | Reach V, IV-B, IV |
| IEUA | 4.130 | Reach IV-A, IV |
| VALLEY | 7.738 | Reach IV-E, IV-D, IV-A, IV |
| Western | 11.084 | Reach IV-D, V, IV-B, IV-A, IV |
| Total | 32.568 | |

- Points of connection to potential future IPR/DPR advanced treatment facilities identified in Task 6, and points of connection to potential future growth areas identified in Task 6.

Resiliency Scenarios

- Future system operational requirements, including but not limited to operational effectiveness, storage, and redundancy.

Deliverables:

The Consultant shall develop a Technical Memorandum including GIS-based maps/exhibits summarizing the results of this Task and analysis, which shall be submitted to SAWPA for review and comment. Results, findings and recommendations from this Task shall be incorporated into Task 7.

f) **Task 6: Market Analysis and Future Growth Projections**

The consultant shall develop a potential customer database which shall identify potential new customers and their associated capacity needs. New customer opportunities would include those industries that use a large volume of water, and the processes introduce or concentrate TDS. Existing databases reviewed in Task 2 can be utilized as a reference, however, significant changes may have occurred since its completion and the Consultant shall be responsible for a comprehensive independent database development.

Potential future customers may be identified through the following:

- *Existing customers.* The Consultant shall work with SAWPA staff in coordinating with existing Brine Line customers to obtain plans for future

brine line needs that may include an increase or decrease over their current needs.

- *SAWPA Member Agencies.* Data from coordination with Member Agencies Task 2.
- *County and City Planning/Development Departments.* Consultant shall work with SAWPA and Member Agency staff in coordinating with County and City planning/development department to obtain information on efforts within their jurisdiction to manage salinity and industries that generate brine.
- *Publicly Owned Treatment Works (POTW).* POTW's within the Brine Line service area are lowering TDS limits for industrial/commercial customer's waste discharge to the sanitary sewer because the amount of TDS that the POTW is allowed to discharge to the receiving water is becoming more restrictive. This restriction on high TDS discharge to the sanitary sewer can present an opportunity for the Brine Line and to the POTW to provide an alternate discharge path for the wastes. Consultant shall contact POTW's within the service area and obtain data on high TDS dischargers, restrictions on dischargers and receiving waters, and pending/potential TDS limits.
- *Commercial Realtors and County Development Agencies.* It is likely that many large high TDS discharging industries looking to locate a facility in Southern California are not aware that the Brine Line exists. It is equally important to ensure that the people that market the region understand what the Brine Line is and who may benefit from its use, because they will most likely be communicating with potential new customers prior to SAWPA. Consultant shall contact commercial realtors and county development agencies to obtain information on potential industries with a high TDS discharge looking to locate in the Brine Line service area and vacant properties adjacent to the Brine Line zoned for industrial/commercial use. Consultant shall provide the list of vacant properties to SAWPA to include in SAWPA's web-based Brine Line Tools.
- *Land use analysis.* Consultant shall work with SAWPA and Member Agency staff in coordinating with County and City planning/development departments to establish a planning basis for current land use, future land use and development anticipated changes. Documents such as general plans, specific plans, aerial photograph maps as well as other pertinent planning documents shall be used to describe the current and future land uses with the study area. Focus should be on areas designated as industrial, commercial and institutional/public (POTWs and water treatment).

Identify future growth areas. Utilizing the data from the market analysis and land use analysis the consultant shall identify future growth areas that may warrant a future Brine Line system expansion. Potential new customers shall be grouped into growth areas where expanding the Brine Line system to these areas is feasible and practical. This information will be utilized in Task 5 and Task 7.

Deliverables:

The Consultant shall develop a Technical Memorandum including customer database table, maps/exhibits summarizing the results of this Task and analysis, which shall be submitted to SAWPA for review and comment.

Customer database at a minimum shall include list of customers, capacity needs, type and description of facility, process that generates brine, address, coordinates, Brine Line Reach, future growth areas and agency service area.

g) **Task 7: Brine Line future facilities, improvements, and system expansion**

Brine Line future facilities, improvements and system expansion will be developed based on the market analysis, hydraulic modeling and system evaluation. Future facilities may include system improvements for growth, capacity deficiencies, resiliency and expansion of the Brine Line system to potential growth areas.

Growth areas. Based on the market analysis, potential new customers shall be grouped into growth areas where expanding the Brine Line system to these areas is feasible and practical. System expansion would include a Brine Line expansion centrally located in the growth area. Direct connection to the Brine Line (which may include a lateral to the Brine Line) would be the responsibility of the customer. The consultant shall prepare a list of system expansion projects to include capacity needs, expansion details (pipe size, etc.) based on facility design criteria, and planning level estimated costs.

Improvements. The consultant shall identify specific projects needed to improve the system capacity to meet ultimate capacity scenarios from Task 5. Where deficiencies exist, the Consultant shall provide recommendations on alternatives (i.e., upsizing, parallel facilities). Existing undersized facilities shall be prioritized for improvement and clearly identified in exhibits. Projects shall include specific recommended improvement details, planning level estimated costs and criteria to determine when to add the project to the 10- year Capital Improvement Program (CIP), such as a capacity range.

Resiliency. The Consultant shall identify specific projects needed for engineering and operational resiliency. Resiliency may include system improvements to maintain operational service due to an unforeseen event that may cause disruption of service to customers. Projects may include system redundancy through interconnection of reaches, storage, mainline valves to allow for by – pass pumping, operations, and emergency equipment to increase response time, and institutional arrangements.

The consultant shall investigate if there are abandoned oil, gas, or water pipelines in the upper watershed that could be repurposed for the Brine Line for potential growth areas and system resiliency.

Deliverables:

The Consultant shall develop a Technical Memorandum summarizing the results of this Task and analysis, which shall be submitted to SAWPA for review and comment.

h) **Task 8: Capacity management (30 MGD System), and long-term planning efforts**

- i) **Task 8.1 Conduct a reliability and redundancy analysis** to investigate and identify the potential for system enhancements that will provide SAWPA with the ability to manage the capacity in the Brine Line to 30 MGD and to prevent or minimize customer outages. Such evaluations shall include but not be limited to; identify potential brine storage potential sites/locations and volumes and flow reduction/brine minimization potential sites/locations and volumes.
- Integrated Brine Treatment Facility. The brine flow reduction should look at a centralized treatment facility located near the Brine Line to collect and divert all or a portion of the brine flows to an integrated treatment facility.
 - Regional Brine Treatment Facility. The brine flow reduction should look at a regional treatment facility located at all the current desalter facilities and (IPR) wastewater minimization facilities.

Evaluation should include required facilities, order of magnitude costs (capital, O&M), potential obstacles, regulatory/permitting requirements, ability to accommodate salt removal requirements and advantages disadvantage. Integrated Brine Treatment Facility should consider the value and ability to use the reclaimed water.

- ii) **Task 8.2 Conduct an additional treatment analysis** to address the potential need to treat the Brine Line flows for PFAS, TSS and BOD, prior to discharge to OC San for treatment. Increased costs to treat and dispose of BOD/TSS at OC San and the potential for PFAS to be regulated and included in the cost of treatment at OC San may create the need to reduce the levels of BOD/TSS and PFAS. The evaluation shall include the required facilities, potential location, solids disposal, order of magnitude costs (capital, O&M), potential obstacles, regulatory/permitting requirements, and advantages and disadvantages, option to include brine minimization with Integrated Brine Treatment Facility (Task 8.1). PFAS treatment systems may consider other treatment systems such as electrochemical water treatment systems such as the Aclarity Electrochemical System (for information see <https://www.aclaritywater.com/>).
- iii) **Task 8.3. Mainline Flow Recorders and SCADA System.** Evaluate alternatives to automate the collection of meter readings and to monitor and collect data including flow rate and volume from key points in the Brine Line System. Develop a conceptual design and preliminary implementation cost. A plan was prepared for the 2010 Phase 3 SARI Operations Technical Memorandum (see Task 2) which can be utilized as a reference; however, significant changes may have occurred, and the Consultant shall be responsible for a comprehensive independent analysis.

Deliverables:

The Consultant shall develop a Technical Memorandum summarizing the results of this Task and analysis, which shall be submitted to SAWPA for review and comment.

i) **Task 9: Multi-use benefits for the future**

The consultant shall identify and evaluate the potential for multi-use benefits for the Brine Line system. Such multi-use benefits shall include but not limited to in-pipe hydroelectric system as a source of renewable energy. The evaluation shall include conditions needed (minimum pipe diameter, pipe material, operating pressures, minimum flows), potential locations, uses of renewable energy produced, estimate of electricity produced, related facilities and order of magnitudes costs.

Deliverables:

The Consultant shall develop a Technical Memorandum summarizing the results of this Task and analysis, which shall be submitted to SAWPA for review and comment.

j) **Task 10: Policy considerations**

The consultant shall meet with SAWPA staff to discuss items within the Master Plan that may necessitate the need to update or initiate new policy considerations. A list of potential policy considerations include:

1. *Lateral ownership (Future pipeline construction).* During the original construction of the Brine Line laterals were constructed and operated by SAWPA, such as the CRC Lateral and the Corona Lateral. However, after the original construction laterals and extensions of the Brine Line have been constructed by the Member Agency, industrial customers, or other agencies. For future expansion of the Brine Line what should the policy be to who constructs, operates, and owns the infrastructure. See Section 11 for a partial listing of Brine Line lateral ownership.
2. *Capacity Buy-Back Program.* Several dischargers to the Brine Line may have a permitted or contractual right to discharge to the Brine Line that is greater than what they need to operate their business daily. Dischargers have purchased and retained this capacity for the possibility of expanding their operations, potential seasonal fluctuations and unanticipated peaks which if they were to exceed their purchased capacity would be in violation of their permit and would be assessed a surcharge. The Discharger Buyback Program would allow Dischargers the ability to sell underutilized capacity back to SAWPA. Dischargers would benefit by not having to pay fixed costs for capacity they are not using and would be able to lease capacity through the lease capacity pool if additional capacity rights were ever needed for expanding their business and seasonal peaks. SAWPA would purchase the capacity through Reserve Funds and limit the program to between 100,000 – 500,000 gpd to ensure adequate reserve amounts and minimal impact to rates. Additional capacity in the Lease Capacity Pool would allow additional

leases and spread the cost of operating the Brine Line over more customers thereby reducing the rate of increase of SAWPA's Brine Line Rates.

3. *How to pay for laterals, projects, and system expansion.* Capital reserves, rate generated revenue, debt financing and other financial alternatives.

Working with staff draft policy considerations, findings, and desired outcomes. Conduct a workshop with Member Agency General Managers and key member agency staff for review and comment. Conduct a workshop with SAWPA PA 24 Committee for review and comment.

Deliverables:

The Consultant shall develop a Technical Memorandum summarizing the results of this Task, which shall be submitted to SAWPA for review and comment.

k) **Task 11: Hydraulic Analysis Module (Optional)**

The selected consultant shall update the hydraulic model as updates are needed and run scenarios as needed. Consultant shall propose performing this hydraulic analysis module task on a Time and Material basis.

l) **Task 12: Prepare Draft and Final Brine Line Master Plan Report.**

Results of the study, findings, analysis, discussions, and recommendations shall be summarized into one well documented Brine Line Master Plan.

i) **Task 12.1 Prepare a report outline at the start of the project** that outlines the proposed report organization. Report should include, executive summary, introduction, study area, description of Brine Line and technical memorandums.

ii) **Task 12.2 Prepare Draft and Final Report.** Submit an initial draft report in PDF format for SAWPA staff and agency review, and a second draft for SAWPA PA 24 Committee review. Consultant shall prepare and provide summary presentations to the General Managers and the PA 24 Committee. Incorporate comments after each draft submittal. Submit a final master plan report.

5) Project Schedule

The Consultant shall conduct a kick-off meeting within one (1) week from notice to proceed. SAWPA anticipates the total time to complete the work is 36 weeks.

6) Fee Proposal Requirements

In preparing the fee schedule for the services identified under the scope of work, the Consultant shall take into consideration the following:

i) Compensation for Consultant direct services provided in completing the tasks shall be based upon an hourly billing rate up to a not-to-exceed amount.

ii) For each task, provide a breakdown of labor hours by employee billing classification together with the cost of non-labor and sub-consultant services. The labor breakdown shall be compiled by project task and be based on a listing of work tasks that correlates with the Consultant's defined scope of work

for the project proposal. For each task, sum the total hours and the total cost. The sum of all task hours and task cost shall be provided. This information will be used by SAWPA to evaluate the reasonableness of the fee proposal and will be used in negotiating the final fee amounts for the contract agreement. Optional tasks shall be detailed as described above for all tasks. Optional tasks shall be broken out separately and not included in the sum of all task hours and all task costs. For each optional task sum the total hours and the total cost.

- iii) The Consultant shall detail the hours allocated to meetings by meeting type (kickoff, bi-weekly coordination, Commission, etc.).
- iv) The Consultant's billing rates for all classifications of staff likely to be involved in the project shall be included with the fee proposal, along with the markup rate for any non-labor expenses and sub-consultants.
- v) SAWPA will review the fee proposal of the Consultant deemed most qualified after completing a review of the proposals and conducting interviews. The final scope and fee will be negotiated with the top ranked Consultant.
- vi) Reimbursable expenses will not be allowed unless included in the proposal and negotiated prior to a contract. Billing rate escalations during the contract term are disfavored and shall be approved in negotiations prior to execution of a contract.

7) **Proposal Requirements**

Although no specific format is required by SAWPA, this section is intended to provide guidelines to the Consultant regarding features, which SAWPA will look for and expect to be included in the proposal.

a) **Content and Format**

SAWPA requests that submitted proposals are organized, presented in an understandable format, and relevant to the services requested. Consultant's proposals shall be clear, accurate, and comprehensive. Excessive or irrelevant material is not of benefit and will not contribute to overall evaluation.

Proposals should be limited to pertinent information. Proposal should be no more than twenty-five **(25) typed pages** (based on an 11-point minimum font size), including Table of Contents. Resumes, cover letter and page dividers will not count toward the proposal page limit. Resumes should be included in an appendix. The fee proposal, provided in a separate file, should contain information to clearly respond to the information that is requested in the RFP.

The proposal should include the following:

- Cover or transmittal letter
- Table of Contents, page numbering
- Project Approach and Scope of Services
- Project Team and Organization Diagram
- Descriptions of similar projects by key staff to be used on this assignment including scope and complexity of the projects

- Brief resumes of key staff and sub-consultants (In Appendix)
- Relevant and appropriate references
- Project schedule
- Breakdown of total hours by Task. Total hours include Consultant personnel and subconsultants.
- Contract Exceptions, Proof of Insurance
- Fee proposal, billing rates for staff. In addition, the fee proposal shall include a breakdown of hours by type of personnel identified as part of the project team **(submitted in a separate file)**.

Some of these areas are described in further detail below:

b) Cover or Transmittal Letter

An individual authorized to bind the Consultant shall sign the proposal and fee proposal. The proposal shall contain a statement that the proposal and fee are valid for at least a 90-day period.

c) Project Approach and Scope of Services

A description of the work program that will be undertaken shall be included in this section. It should explain the technical approach, methodology, and specific tasks and activities that will be performed to address the specific issues and work items identified in the RFP. It should also include a discussion of constraints, problems, and issues that should be anticipated during the contract, and suggestions for approaches to resolving them. Any proposed deviations to the scope of work as described herein should be clearly noted.

d) Project Team and Organization Diagram

The purpose of this section is to describe the organization of the project team including sub-consultants and key staff. A project manager shall be named who shall be the prime contact and be responsible for coordinating all activities with SAWPA. An organizational diagram shall be submitted showing all key team members, their office location, and the relationship between SAWPA, the project manager, key staff, and sub-consultants. There also shall be a brief description of the role and responsibilities of all key staff and sub-consultants identified in the team organization.

e) Project Schedule

A project schedule shall be included which identifies the timetable for completion of tasks, activities, and phases of the project that correlate with the scope of work for the project. There should be a brief discussion of any key assumptions used in preparing the timetable, and identification of critical tasks and/or events that could impact the overall schedule.

f) Contract Exceptions, Proof of Insurance

The Consultant shall carefully review the standard agreement and include with the proposal a description of any exceptions requested to the standard contract. If there are no exceptions, a statement to that effect shall be included in the proposal.

The Consultant shall furnish, with the proposal, proof of insurance coverage to the minimum levels identified in Section 8.

g) **Fee Proposal (In Separate Sealed Envelope)**

A Fee Proposal shall be submitted per the requirements of Section 6.

8) **General Requirements**

a) **Insurance Requirements**

The Consultant shall furnish, with the proposal, proof of the following minimum insurance coverage. Full information on insurance requirements is listed in Attachment B. These minimum levels of coverage are to be maintained for the duration of the project:

- i) Obtain a Commercial **General Liability and an Automobile Liability** insurance policy, including contractual coverage, with limits for bodily injury and property damage in an amount of not less than \$2,000,000.00 per occurrence for each such policy. Such policy shall name SAWPA, its officers, employees, agents and volunteers, as an additional insured, with any right to subrogation waived as to SAWPA, its officers, employees, agents and volunteers. If Commercial General Liability Insurance or other form with an aggregate limit is used, either the general aggregate limit shall apply separately to the work assigned by SAWPA under this Agreement or the general aggregate limit shall be at least twice the required occurrence limit. The coverage shall be at least as broad as Insurance Services Office Commercial General Liability Coverage (occurrence Form CG 00 01) and Insurance Services Office Form CA 00 01 covering Automobile Liability, Code 1 (any auto). The Commercial Liability Insurance shall include operations, products and completed operations, as applicable.
- ii) Obtain a policy of **Professional Liability** (errors and omissions) insurance appropriate to the Consultant's profession in a minimum amount of \$2,000,000.00 per claim or occurrence to cover any negligent acts or omissions or willful misconduct committed by Consultant, its employees, agents and subcontractors in the performance of any services for SAWPA. Architects' and engineers' coverage shall include contractual liability.
- iii) Obtain a policy of **Employer's Liability** insurance in a minimum amount of \$1,000,000.00 per accident for bodily injury and property damage.
- iv) Provide **worker's compensation** insurance or a California Department of Insurance-approved self-insurance program in an amount and form required by the State of California and the Employer's Liability Insurance that meets all applicable Labor Code requirements, covering all persons or entities providing services on behalf of the Consultant and all risks to such persons or entities.

The Consultant is encouraged to contact its insurance carriers during the Proposal stage to ensure that the insurance requirements can be met if selected for negotiation of a contract agreement.

b) Standard Form of Agreement

The selected Consultant will enter into an agreement with SAWPA based upon the contents of the RFP and the Consultant's proposal. SAWPA's standard form of agreement is included as **Attachment A**. The Consultant shall carefully review the agreement, especially in regard to the indemnity and insurance provisions, and include with the proposal a description of any exceptions requested to the standard contract. If there are no exceptions, a statement to that effect shall be included in the proposal.

c) Assigned Representatives

SAWPA will assign a responsible representative to administer the contract and to assist the Consultant in obtaining information. The Consultant also shall assign a project manager who shall be identified in the proposal. The Consultant's representative shall remain in responsible charge of the Consultant's duties from the notice-to-proceed through project completion. SAWPA's representative shall approve any substitution of representatives or sub-consultants identified in the written proposal. SAWPA reserves the right to review and approve/disapprove all key staff and sub-consultant substitution or removal, and may consider such changes not approved to be a breach of contract.

9) Consultant Evaluation and Selection Process

SAWPA's consultant evaluation and selection process is based on comprehensive review of the proposals for professional services. The following criteria will be used in evaluating the proposals:

1. Understanding of the project requirements including identification of critical elements and key issues for successful project implementation.
2. Technical approach and work plan for the project, including innovative approaches
3. Relevant qualifications and experience of the firm, project manager, other key individuals, and sub-consultants and past performance and experience.
4. Schedule
5. Quality control procedures
6. Results of reference checks
7. Clarity of proposal and compliance with proposal requirements

Firms submitting the best proposals may be invited to an interview conducted by a selection panel made up of representatives from SAWPA member agencies, sub-agencies, and/or SAWPA staff. The number of firms to be invited for interviews is at the discretion of SAWPA. The interview format and details will be included in the interview invitation letter. SAWPA recognizes the significant effort required to respond to this RFP and therefore discourages any firm or team which lacks the required experience to submit a proposal for evaluation.

SAWPA may negotiate a contract with the most qualified firm or firms for the desired consulting services and compensation level, which SAWPA determines is fair and reasonable. Failing a successful negotiation with the best-qualified firm or firms, SAWPA will terminate negotiations and continue the negotiation process with the next most qualified firm(s), in order to obtain the services at a fair and reasonable price, until an agreement is reached, a firm is selected, and an agreement is executed.

10) Attachments

Attachment A — Standard form of Agreement

11) Available Documents

The following reference documents are available for download from SAWPA (Dropbox). Please e-mail Haley Mullay at Hmullay@SAWPA.org and cc David Ruhl at Druhl@SAWPA.org to receive download instructions.

1. Record drawings
2. List of Laterals
3. SAWPA, Santa Ana Regional Interceptor Hydraulic Model and Capacity Assessment, Kennedy/Jenks Consultants, January 2006
4. SAWPA, Santa Ana Regional Interceptor Market Analysis Final Draft, EEC, August 2009
5. SAWPA, Santa Ana Watershed Salinity Management Program, Phase 2 SARI Planning Technical Memorandum, CDM, Carollo, Wildermuth, May 2010
6. SAWPA, Santa Ana Watershed Salinity Management Program, Phase 3 SARI Operations Technical Memorandum, CDM, Carollo, Wildermuth, May 2010
7. EMWD Brine Management System, Basis of Design Report, CDM, March 2009
8. SAWPA, Criticality Assessment, Dudek, May 2021.
9. SAWPA, OERP, SAWPA December 2020.

10. PROPOSAL AUTHORIZATION

(Please provide this document (or exact information) on your letterhead)

I certify I am authorized to submit a binding proposal on behalf of my company, (enter company name), and this proposal conforms to required specifications unless otherwise noted.

Company Name

Proposal Submitted by

Title

Signature

Date

Email

Telephone Number

Facsimile Number

**Santa Ana Watershed Project Authority
PA24 - Brine Line - Financial Report
May 2022**

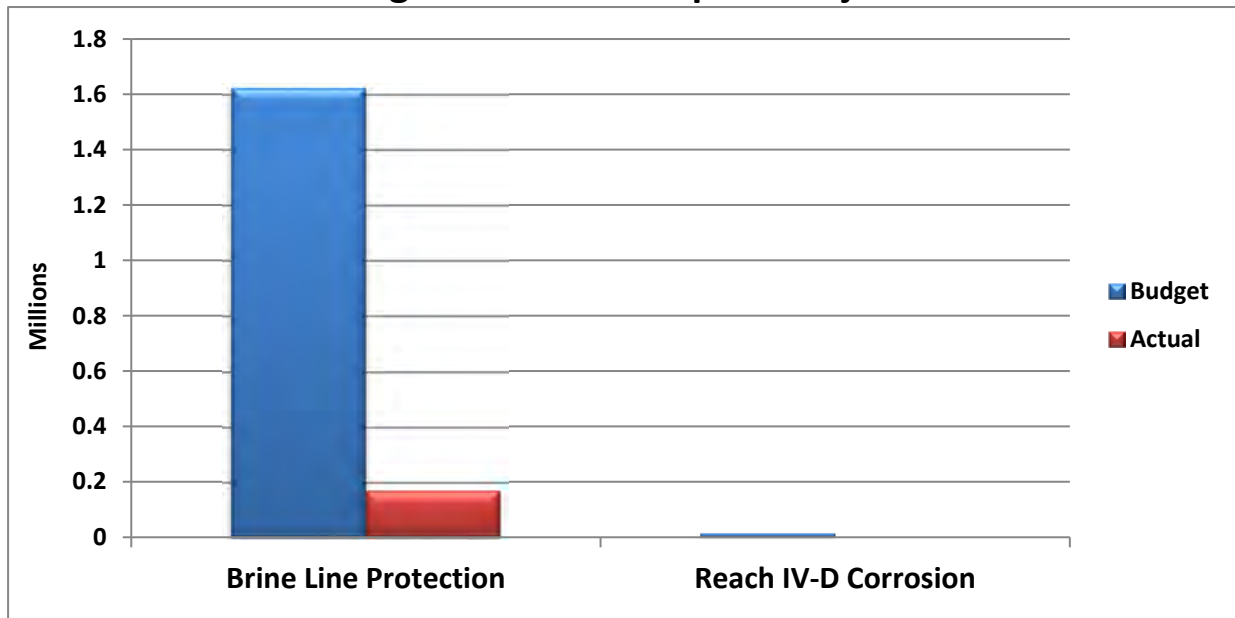
Staff comments provided on the last page are an integral part of this report.

| | |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Overview | This report highlights the Brine Line’s key financial indicators for the Fiscal Year-to-Date (FYTD) through May 2022 unless otherwise noted. |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|


Brine Line - Capital Projects

| Budget to Actual – Capital Projects ⊗ | | | | Concern |
|-----------------------------------------------------------------------------------------------------------|--------------------|--------------------|------------------|----------------------------------|
| | Annual Budget | FYTD Budget | FYTD Actual | Favorable (Unfavorable) Variance |
| Brine Line Protection | \$1,772,064 | \$1,624,392 | \$170,911 | \$1,453,481 |
| Reach IV-D Corrosion | 14,818 | 13,583 | - | 13,583 |
| Total Capital Costs | \$1,786,882 | \$1,637,975 | \$170,911 | \$1,467,064 |

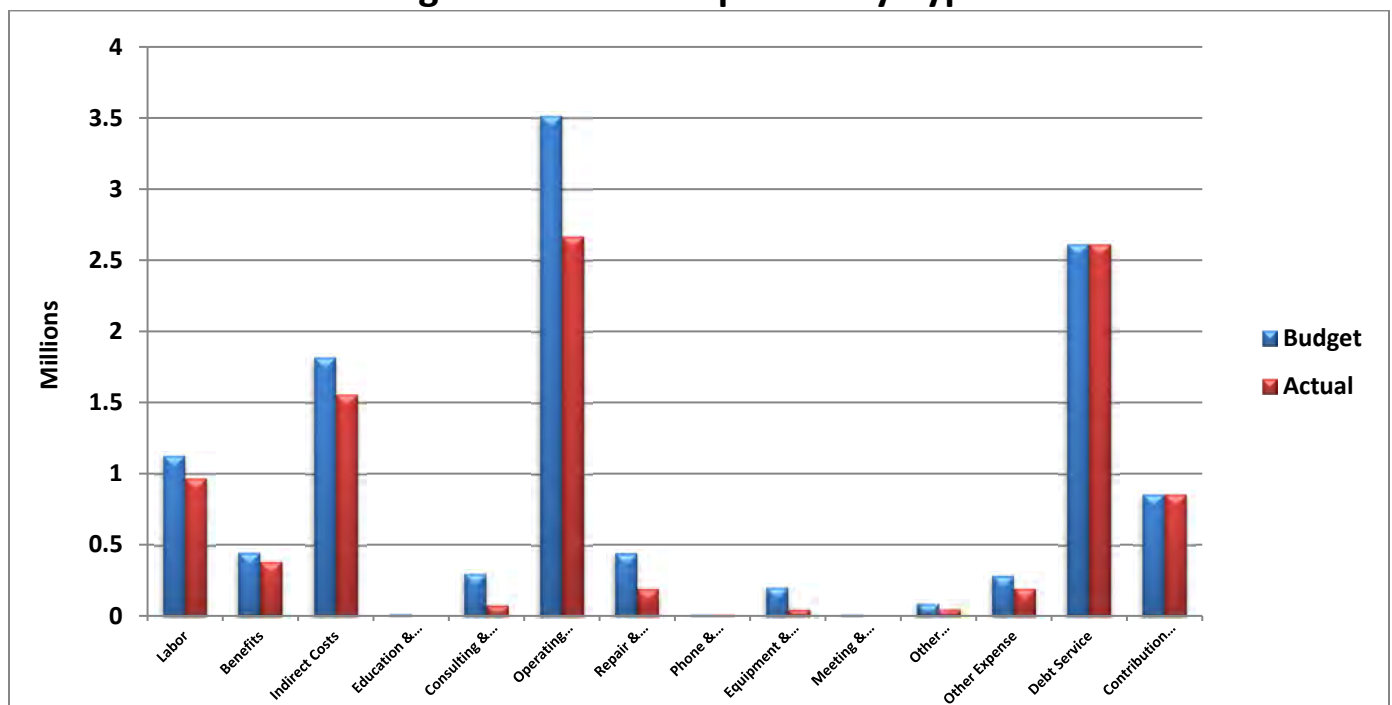
Budget to Actual - Capital Projects



Brine Line – Operating

| Budget to Actual - Expenses by Type | | | |  Favorable |
|-------------------------------------|---------------------|---------------------|--------------------|-----------------------------------------------------------------------------------------------|
| | Annual Budget | FYTD Budget | FYTD Actual | Favorable (Unfavorable) Variance |
| Labor | \$1,227,239 | \$1,124,969 | \$964,956 | \$160,013 |
| Benefits | 485,743 | 445,264 | 382,122 | 63,142 |
| Indirect Costs | 1,979,458 | 1,814,503 | 1,556,473 | 258,030 |
| Education & Training | 14,500 | 13,292 | 1,196 | 12,096 |
| Consulting & Prof Svcs | 322,000 | 295,167 | 76,875 | 218,292 |
| Operating Costs | 3,833,540 | 3,514,078 | 2,668,685 | 845,393 |
| Repair & Maintenance | 480,000 | 440,000 | 192,009 | 247,991 |
| Phone & Utilities | 10,200 | 9,350 | 10,369 | (1,019) |
| Equip & Computers | 218,000 | 199,833 | 49,685 | 150,148 |
| Meeting & Travel | 10,000 | 9,167 | - | 9,167 |
| Other Admin Costs | 90,900 | 83,325 | 44,869 | 38,456 |
| Other Expense | 308,472 | 282,766 | 195,343 | 87,423 |
| Debt Service | 2,608,439 | 2,608,439 | 2,608,439 | - |
| Contribution to Reserves | 928,781 | 851,383 | 851,383 | - |
| Total | \$12,517,272 | \$11,691,536 | \$9,602,404 | \$2,089,132 |

Budget to Actual - Expenses by Type



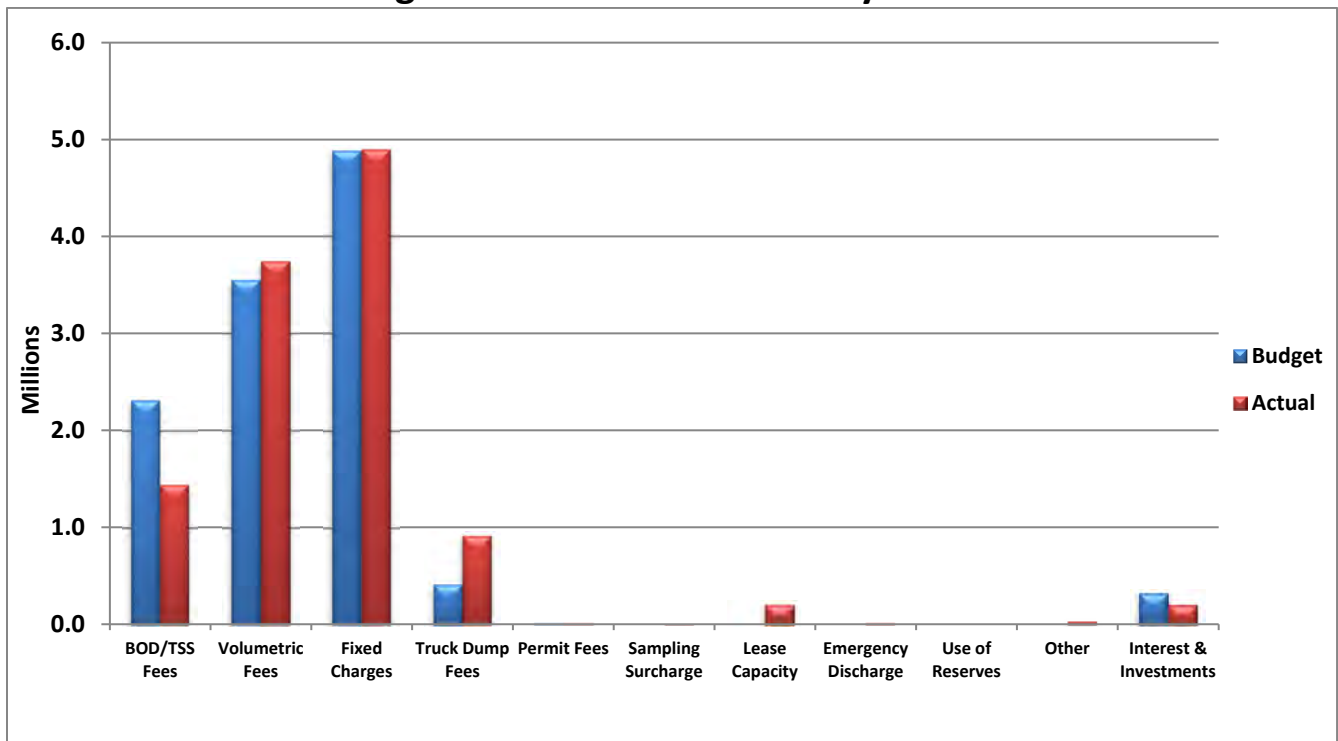
Budget to Actual - Revenues by Source



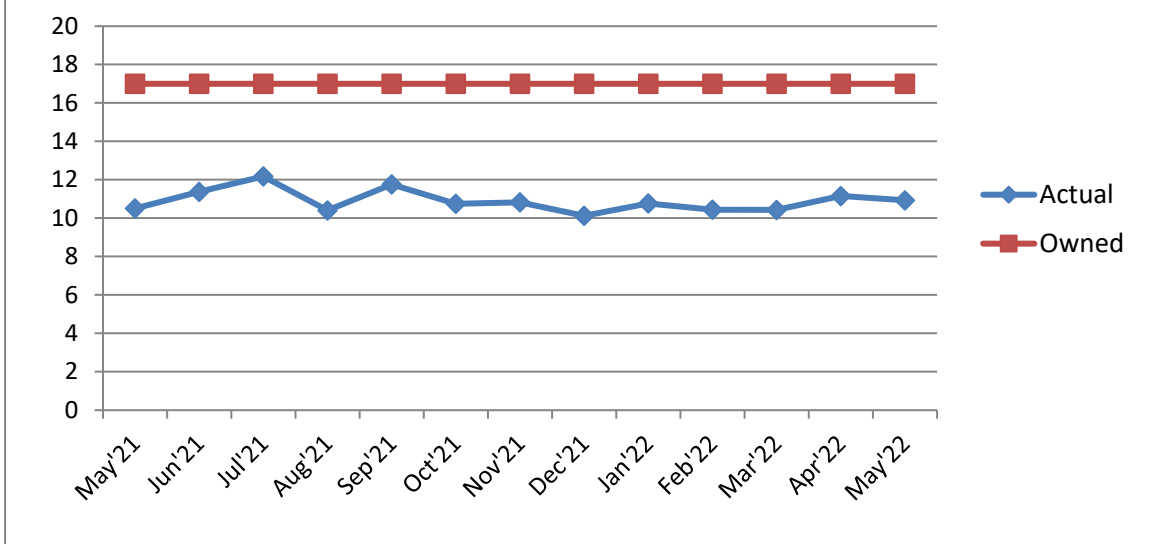
On Track

| | Annual Budget | FYTD Budget | FYTD Actual | Favorable (Unfavorable) Variance |
|--------------------------|---------------------|---------------------|---------------------|----------------------------------|
| BOD/TSS Fees | \$2,520,700 | \$2,310,642 | \$1,443,180 | (\$867,462) |
| Volumetric Fees | 3,868,400 | 3,546,033 | 3,738,564 | 192,531 |
| Fixed Charges | 5,323,422 | 4,879,804 | 4,893,173 | 13,369 |
| Truck Dump Fees | 451,500 | 413,875 | 907,221 | 493,346 |
| Permit Fees | 28,250 | 8,000 | 8,800 | 800 |
| Sampling Surcharge | - | - | 6,867 | 6,867 |
| Lease Capacity Revenue | - | - | 195,731 | 195,731 |
| Emergency Discharge Fees | - | - | 9,528 | 9,528 |
| Use of Reserves | - | - | - | - |
| Other Revenue | - | - | 28,024 | 28,024 |
| Interest & Investments | 325,000 | 318,750 | 199,370 | (119,380) |
| Total | \$12,517,272 | \$11,477,104 | \$11,430,458 | (\$46,646) |

Budget to Actual - Revenues by Source



Average Daily Flow by Month

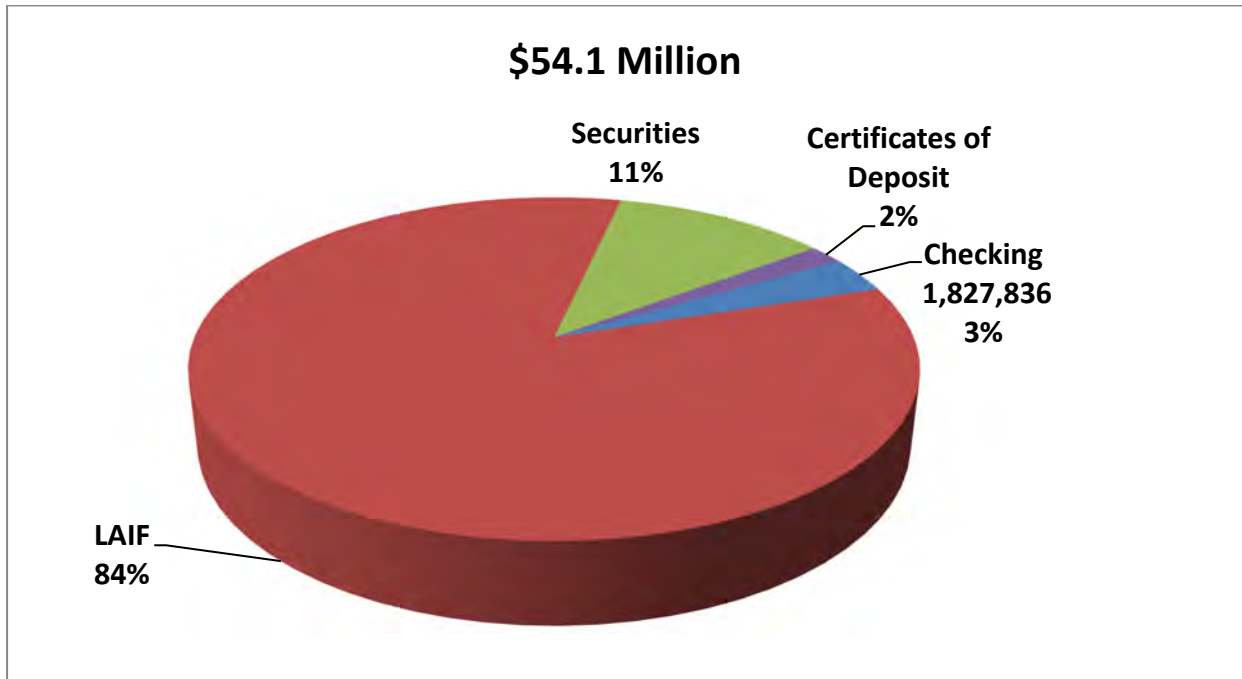


Total Discharge by Agency (in million gallons)

| Discharger | Jul '21 | Aug'21 | Sep'21 | Oct'21 | Nov'21 | Dec'21 | Total |
|----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Chino Desalter Authority | 117.5422 | 96.8761 | 101.6842 | 107.3994 | 96.4638 | 90.9258 | 610.8915 |
| Eastern Municipal Water District | 80.8025 | 70.5889 | 73.3217 | 72.6882 | 74.7951 | 66.2692 | 438.4656 |
| Inland Empire Utilities Agency | 14.7045 | 14.2407 | 13.9934 | 14.1440 | 12.8594 | 13.1268 | 83.0688 |
| San Bernardino Valley MWD | 38.6734 | 36.0184 | 34.3989 | 35.0538 | 33.5751 | 32.6578 | 210.3774 |
| Western Municipal Water District | 146.1551 | 121.6238 | 124.9316 | 111.3215 | 92.6044 | 97.0833 | 693.7197 |
| Truck Discharge | 3.6981 | 3.9032 | 4.2652 | 3.7407 | 3.5243 | 3.5298 | 22.6613 |
| Total | 401.5758 | 343.2511 | 352.5950 | 344.3476 | 313.8221 | 303.5927 | 2,059.1843 |

| Discharger | Jan'22 | Feb'22 | Mar'22 | Apr'22 | May'22 | Jun'22 | Total |
|----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------|-------------------|
| Chino Desalter Authority | 112.4660 | 98.8086 | 108.8246 | 110.5872 | 87.3634 | | 1,128.9413 |
| Eastern Municipal Water District | 77.7934 | 50.5208 | 77.9107 | 85.5344 | 76.7402 | | 806.9651 |
| Inland Empire Utilities Agency | 12.0825 | 11.8219 | 13.4538 | 13.3747 | 13.3043 | | 147.1060 |
| San Bernardino Valley MWD | 34.0079 | 28.0517 | 21.0902 | 29.4321 | 30.1620 | | 353.1213 |
| Western Municipal Water District | 104.0672 | 109.4461 | 101.8863 | 113.9928 | 108.3836 | | 1,231.4957 |
| Truck Discharge | 4.0161 | 4.1305 | 3.9478 | 3.9393 | 4.0387 | | 42.7337 |
| Total | 344.4331 | 302.7796 | 327.1134 | 356.8605 | 319.9922 | | 3,710.3631 |





Total Cash & Investments - May



Reserve Fund Balance – May

| | Amount |
|-----------------------|---------------------|
| Self Insurance | \$4,352,284 |
| Debt Retirement | 2,829,589 |
| Pipeline Replacement | 22,651,427 |
| OC San Rehabilitation | 2,389,658 |
| Capacity Management | 12,033,687 |
| Future Capacity | 1,842,396 |
| Rate Stabilization | 1,032,428 |
| Flow Imbalance | 84,572 |
| Brine Line Operating | 6,838,952 |
| Total Reserves | \$54,054,993 |

Legend

| | | <u>Compared to Budget</u> |
|-----------------------------------------------------------------------------------|--------------------|-------------------------------------------------|
|  | Ahead or Favorable | Above +5% Favorable Revenue or Expense Variance |
|  | On Track | +5% to -2% Variance |
|  | Behind | -3% to -5% Variance |
|  | Concern | Below -5% Variance |

Staff Comments

For this month's report, the item(s) explained below are either "behind", a "concern", or have changed significantly from the prior month.

Capital Projects are 89% below budget. Work on these projects have been delayed and will not be incurred this fiscal year.

Total costs to date for the December 18, 2021 brine line spill are \$196,104. We have received \$27,523 reimbursement from our insurance.



Santa Ana Watershed Project Authority

Financial Report for the Inland Empire Brine Line
Enterprise/CIP for the 3rd Quarter Ending
March 31, 2022

1

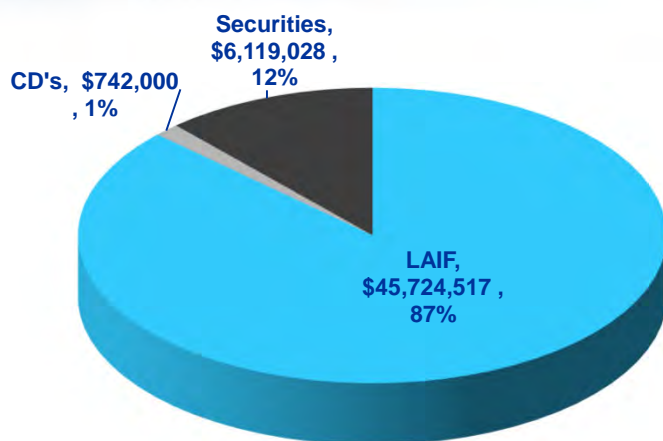
Agenda

- Cash & Investments
- Reserve Account Balances
- Transfer, Uses & Contributions from/to Reserves
- Enterprise Revenues
- Enterprise Expenses
- Enterprise Performance
- Capital Improvement Program

2

Cash & Investments

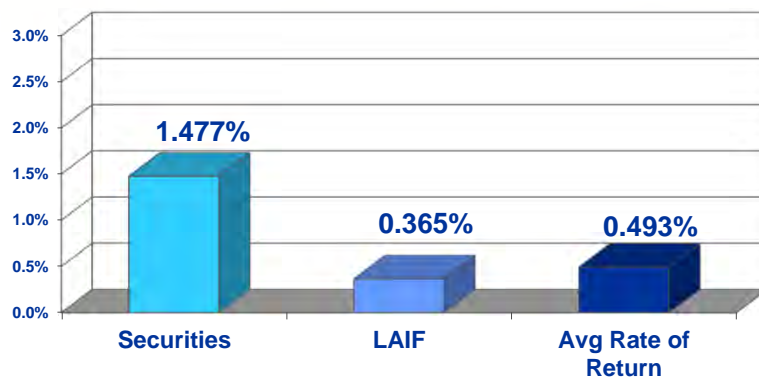
\$52,585,545



3

Cash & Investments

Interest Rate Analysis



4

Reserve Account Balances

| Reserve Account | Balance |
|----------------------------|---------------------|
| Self Insurance | \$4,321,376 |
| Debt Retirement | 2,827,377 |
| Pipeline Replacement | 22,548,826 |
| OC San Rehabilitation | 2,387,790 |
| Capacity Management | 12,024,280 |
| OC San Future Capacity | 1,840,956 |
| Flow Imbalance Reserve | 84,506 |
| Rate Stabilization Reserve | 1,031,621 |
| Operating Reserve | 5,518,813 |
| Total Reserves | \$52,585,545 |

5

Reserve Account Balances Trends

| Reserve | Balance @ 06/30/21 | Balance @ 09/30/21 | Balance @ 12/31/21 | Balance @ 03/31/22 |
|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Self Insurance | \$4,494,364 | \$4,500,118 | \$4,508,045 | \$4,321,376 |
| Debt Retirement | 3,712,038 | 2,817,994 | 2,824,145 | 2,827,377 |
| Pipeline Replacement | 21,889,082 | 22,119,764 | 22,389,053 | 22,548,826 |
| OC San Rehabilitation | 2,377,813 | 2,380,866 | 2,385,060 | 2,387,790 |
| Capacity Mgmt | 11,981,707 | 11,989,412 | 12,010,534 | 12,024,280 |
| OC San Future Capacity | 1,833,264 | 1,835,618 | 1,838,852 | 1,840,956 |
| Flow Imbalance Reserve | 83,681 | 83,789 | 84,410 | 84,506 |
| Rate Stabilization Reserve | 1,027,311 | 1,028,630 | 1,030,442 | 1,031,621 |
| Operating Reserve | 3,672,578 | 5,115,225 | 5,459,327 | 5,518,813 |
| Total | \$51,071,838 | \$51,871,416 | \$52,529,868 | \$52,585,545 |

6

Transfers, Use and Contributions To/From Reserve

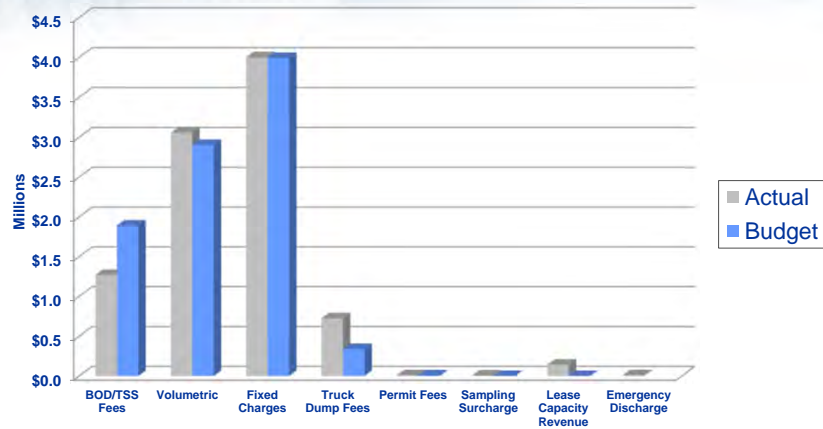
- **Pipeline Replacement Reserve**
 - Contribution of \$596,586
 - Use of \$150,696 - Fund 320 Brine Line Protection
- **Debt Service Reserve**
 - Use of \$898,963

Total Operating Revenues

| Source | Actual | Budget | Variance Positive/(Negative) |
|---------------------------------|--------------------|--------------------|---------------------------------|
| BOD/TSS Fees | \$1,269,241 | \$1,890,525 | (\$621,284) |
| Volumetric Fees | 3,054,541 | 2,901,300 | 153,241 |
| Fixed Charges | 4,000,588 | 3,992,567 | 8,021 |
| Truck Discharge | 725,634 | 338,625 | 387,009 |
| Permit Fees | 8,800 | 8,000 | 800 |
| Lease Capacity Revenue | 142,350 | 0 | 142,350 |
| Sampling Surcharge | 6,867 | 0 | 6,867 |
| Emergency Discharge Fees | 9,528 | 0 | 9,528 |
| Total Operating Revenues | \$9,217,549 | \$9,131,017 | \$86,532 |

Operating Revenues vs. Budget

Budget vs. Actual



9

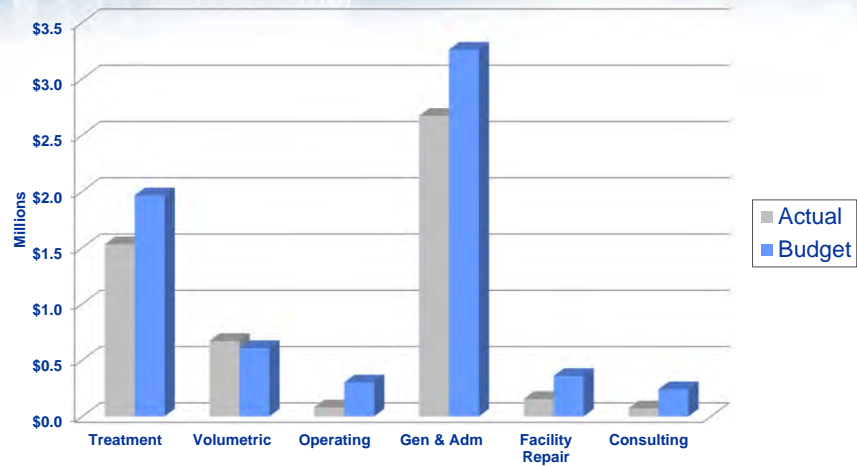
Total Operating Expenses

| Source | Actual | Budget | Variance Positive/(Negative) |
|---------------------------------|----------------------|----------------------|---------------------------------|
| Treatment Costs | (\$1,529,565) | (\$1,964,625) | \$435,060 |
| Volumetric Costs | (670,922) | (607,905) | (63,017) |
| Operating Costs | (80,658) | (302,625) | 221,967 |
| General & Administration | (2,670,726) | (3,258,384) | 587,658 |
| Facility Repair & Maintenance | (155,435) | (360,000) | 204,565 |
| Consulting & Prof. Services | (71,823) | (241,500) | 169,677 |
| Total Operating Expenses | (\$5,179,129) | (\$6,735,039) | \$1,555,910 |

10

Operating Expenses vs. Budget

Budget vs. Actual



11

Non-Operating Revenues and Expenses

| Source | Actual | Budget | Variance Positive/(Negative) |
|----------------------------|----------------------|----------------------|---------------------------------|
| Interest & Investments | \$190,245 | \$243,750 | (\$53,505) |
| Other Income | 467 | 0 | 467 |
| Debt Service Payments | (2,608,439) | (2,608,439) | 0 |
| Contributions to Reserves | (696,586) | (696,586) | 0 |
| Total Non-Operating | (\$3,114,313) | (\$3,061,275) | (\$53,038) |

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Enterprise Performance

Flow, BOD, TSS Actual vs. OCSD Billing

| | SAWPA Billed | OCSD Billing | Difference |
|----------------------------|--------------|--------------|------------|
| Total Flow (MG) | 3,018.6171 | 2,987.720 | 30.8971 |
| Total BOD (1,000 lbs) | 821.6776 | 875.470 | (53.7924) |
| Total TSS (1,000 lbs) | 2,588.2061 | 2,640.079 | (51.8729) |
| Flow - Pass through per MG | \$213.30 | \$224.56 | (\$11.26) |
| BOD cost per 1,000 lbs | \$329.00 | \$320.54 | \$8.46 |
| TSS cost per 1,000 lbs | \$460.00 | \$473.07 | (\$13.07) |

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Enterprise Performance

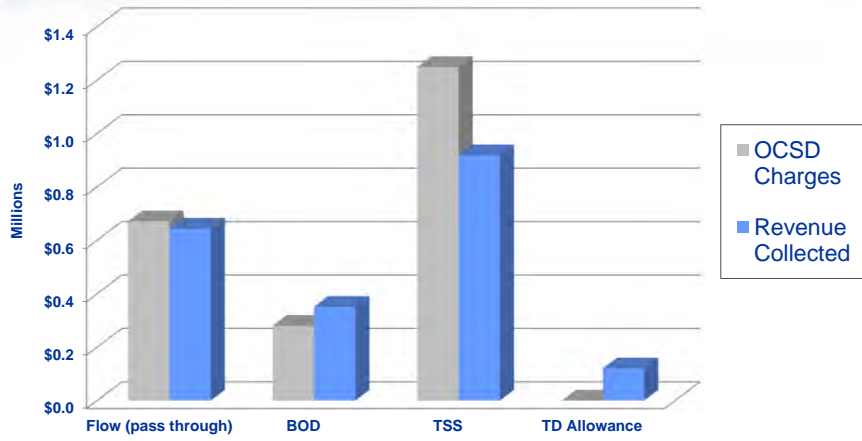
OCSD Flow, BOD & TSS Charges vs. Revenue Billed

| | Revenue Billed | OCSD Charges | Difference |
|---------------------|--------------------|--------------------|--------------------|
| Flow (pass through) | \$643,871 | \$670,922 | (\$27,051) |
| BOD | 351,034 | 280,623 | 70,411 |
| TSS | 918,207 | 1,248,942 | (330,735) |
| TD Allowance | 120,363 | 0 | 120,363 |
| Total | \$2,033,475 | \$2,200,487 | (\$167,012) |

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Enterprise Performance

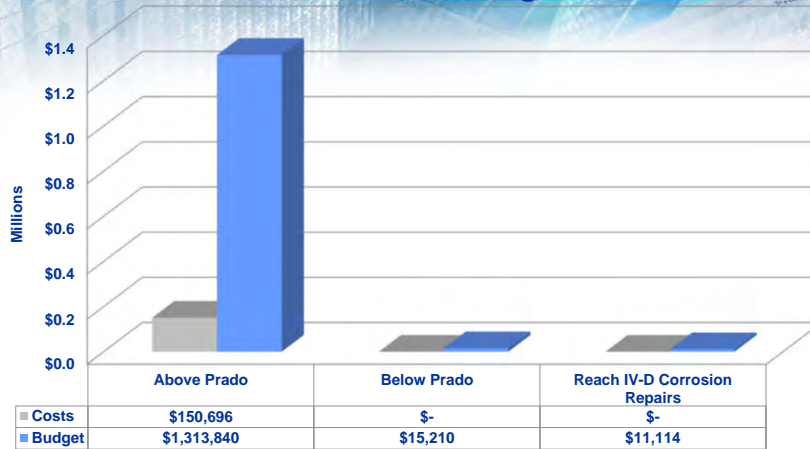
OCSD Flow, BOD & TSS Charges vs. Revenue Collected



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Capital Project Fund

Costs vs. Budget



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Capital Project Fund (320)

Brine Line Protection / Relocation Projects

- **D/S Prado in OC** – emergency protection work, pipeline relocation
- **Above Prado** - pipeline relocation and manhole lid adjustments – when required
- **D/S Prado in Riv County** – bank armoring

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Questions ?

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