



**SAN ANTONIO WATER COMPANY**  
**BUDGET WORKSHOP OF THE BOARD OF DIRECTORS**  
AGENDA

**Thursday, December 1, 2022 at 3:00 p.m.**  
At the Company Office, 139 N. Euclid Avenue, Upland, CA  
And Virtual/Online or Teleconference

**Please join my meeting from your computer, tablet or smartphone.**

<https://meet.goto.com/833025837>

**You can also dial in using your phone.**

Access Code: 833-025-837

United States: [+1 \(312\) 757-3121](tel:+13127573121)

Call to Order

1. Recognitions and Presentations: - None

2. Additions-Deletions to the Agenda: - None

3. Shareholder-Public Testimony:

This is the time for any shareholder or member of the public to address the board members on any topic under the jurisdiction of the Company, which is on or not on the agenda. Please note, pursuant to the Brown Act the board is prohibited from taking actions on items not listed on the agenda. For any testimony, speakers are requested to keep their comments to no more than four (4) minutes, including the use of any visual aids, and to do so in a focused and orderly manner. Anyone wishing to speak is requested to voluntarily fill out and submit a speaker's form to the manager prior to speaking.

4. Approval of Board Meeting Minutes

Regular Board Meeting Minutes of November 15, 2022.

5. Budget Workshop:

A. "Draft" CY2023 Administration and Operations Budget

Presentation by staff for comments and/or recommendations

B. "Draft" CY2023 Capital Improvement and Capital Outlay Budget

Presentation by staff for comments and/or recommendations

C. Well 31 Rehabilitation

Discussion and Possible Action Regarding the Rehabilitation of Well 31

6. Director's Comments and Future Agenda Items:

Adjournment:

*The next regular Board Meeting is scheduled for Tuesday, January 17, 2023 at 5 p.m.*

**NOTE:** All agenda report items and back-up materials are available for review and/or acquisition from the Water Company Office (139 N. Euclid Avenue, Upland, CA.) during regular office hours, Monday through Friday [8:00 – 11:30 and 12:30 – 4:00]. The agenda is also available for review and copying at the City of Upland located at 460 N. Euclid Ave., and the Upland Public Library located at 450 N. Euclid Ave.

POSTING November 29, 2022 a true and correct copy of this agenda was posted at the entry of the Water Company's Office (139 N. Euclid Avenue), at the City of Upland at 460 N. Euclid Avenue, and on the public bulletin board at 450 No. Euclid Avenue (Upland Public Library), and on the Water Company's website.

**SAN ANTONIO WATER COMPANY**  
**MINUTES OF THE SAN ANTONIO WATER COMPANY**  
**Tuesday, November 15, 2022**

An open meeting of the Board of Directors of the San Antonio Water Company (SAWCo) was called to order at 5:00 p.m. on the above date at the City of Upland Council Chambers, 460 N. Euclid Ave., Upland, California. Directors present were Will Elliott, Bob Cable, Martha Goss, Bill Velto, Kati Parker, and Bob Bowcock. Director Rudy Zuniga was absent. Also in attendance were SAWCo's General Manager Brian Lee, Assistant General Manager Teri Layton, and Senior Administrative Specialist Kelly Mitchell. Vice-President Elliott presided.

Director Cable led all in attendance in the flag salute.

1. Recognitions and Presentations: None.
2. Additions-Deletions to the Agenda: Mr. Lee requested adding ratifying Resolutions 2022-11-01 and 2022-11-02 honoring retiring Chino Basin Water Conservation District (CBWCD) directors Grupposo and Hamilton to the agenda as Item 6E.

Director Parker moved and Director Bowcock seconded to add ratifying Resolutions 2022-11-01 and 2022-11-02 honoring retiring CBWCD directors Grupposo and Hamilton to the agenda as Item 6E. Motion carried unanimously.

3. Shareholder-Public Testimony:  
Director Cable, speaking as a SAWCo shareholder and a member of the San Antonio Heights Association (SAHA), thanked both Director Velto and Mr. Lee for presenting at the recent SAHA annual meeting.
4. Consent Calendar Items:
  - A. Approval of Board Meeting Minutes  
Regular Meeting Minutes of October 18, 2022.
  - B. Planning, Resources and Operations Committee (PROC) Meeting Minutes  
Approve meeting minutes of June 28, 2022.
  - C. Administration and Finance Committee (AFC) Meeting Minutes  
No meeting minutes to approve.
  - D. Financial Statement  
Income Statement and Balance Sheet for September 30, 2022.
  - E. Investment Activity Report  
Monthly Report of Investments Activity.
  - F. Water Production and Consumption  
Monthly water production and consumption figures.
  - G. Prominent Issues Update  
Status summaries on certain on-going active issues.
  - H. Projects and Operations Update  
Status summaries on projects and operations matters.
  - I. Groundwater Level Patterns [Quarterly in January, April, July, and October]  
Tracking patterns of groundwater elevations relative to ground surface.
  - J. Conservation Program Update [Quarterly in January, April, July, and October]  
Update on SAWCo's existing water conservation programs
  - K. Correspondence of Interest

Director Velto moved and Director Goss seconded to approve the Consent Calendar as presented. Motion carried unanimously.

5. Board Committee – Delegate Report:

**A. Pomona Valley Protective Association (PVPA) Representative’s Report** – Director Parker reported on the PVPA annual meeting held November 10<sup>th</sup>. At the meeting the new slate of officers were voted in. On the agenda was the memorandum of understanding (MOU) between Six Basins and PVPA regarding the new basin located south of the San Antonio Dam, below Mt. Baldy Road. The basin is on PVPA land in the City of Claremont and construction is slated to begin in spring of 2023.

**B. Six Basins Representative Report** – Ms. Layton advised of her attendance at the October 26<sup>th</sup> Six Basins watermaster board meeting. The draft 2023 Operating Safe Yield (OSY) as presented by West Yost Engineering suggests reducing the OSY 500-acre feet (AF). Ms. Layton expressed concern with rising water storage and its relationship to declining safe yield. Written comments were provided to West Yost Engineering. The board packet for the upcoming Six Basins meeting appears to recommend either staying with the current OSY amount or reducing. Ms. Layton explained that SAWCo is in the upper portion of the basin and has not experienced any groundwater level reduction. As the OSY amount declines, SAWCo must pull more from its storage water account.

The annual assessment for the basin is proposed to stay the same at \$24/AF.

**C. Chino Basin Representative Report** – Mr. Lee advised the judge ruled against the City of Ontario in their quest for dry year yield reset. The judge stated they submitted their paperwork too late to be considered.

**D. Cucamonga Basin Representative Report** – Mr. Lee reported the hydrogeologist continues to make improvement to the basin model. Invoices from past projects and whether the costs should be split between the parties is being discussed.

**E. Administration and Finance Committee (AFC) Chairman’s Report** – No meeting to report.

**F. Planning, Resources, and Operations Committee (PROC) Chairman’s Report** – Director Elliott reported items discussed with direction given, such as the Paloma Curve Hydraulic Break and the Surface Water Treatment Plant, are included in the General Manager’s Report on Activities.

**G. Office Feasibility Study Ad Hoc Committee** – No meeting to report.

6. General Manager’s Report on Activities:

**A. Annual Review of Employee Health and Welfare Benefits** – Mr. Lee reported a 2% increase in costs for employee health insurance coverage which equates to roughly an additional \$208 per month. Dental insurance coverage was quoted as having a 5% increase however, SAWCo’s insurance broker was able to secure dental coverage for the same amount as the previous year. All other benefits premiums are included in the handouts.

Director Velto moved and Director Bowcock seconded to approve renewal of SAWCo’s employee health and welfare benefits as presented. Motion carried unanimously.

**B. Paloma Curve Hydraulic Break** – Mr. Lee explained staff had a predesign study completed earlier in the year to determine possible solutions to the noise heard when water flows are high. Staff has determined the facilities have reached the end of their useful life and need to be replaced. The two solutions of interest involve either just replacing the facilities at Paloma Curve or replacing the entire pipeline from the Forebay all the way down. The cost difference was roughly \$400,000 to \$1,000,000. Staff felt it of better value to replace the entire line but was concerned with the \$1,000,000 price tag in today’s market. He asked the engineer to double check the estimate and the engineer is confident in the amount provided. Originally, the PROC recommended staff move forward with the option replacing just the facilities at Paloma Curve until the amount for replacing the entire line was verified. Now that staff has received confirmation from the engineer on the cost to

replace the entire line, he asks the Board authorize staff to include in the projects for 2023 the replacement of the entire line from the Forebay down.

Director Goss moved and Director Cable seconded to add the design and construction of the replacement line for the Paloma Curve Hydraulic Break as described in Option 1 as presented to the 2023 capital improvement project list. Motion carried unanimously.

- C. Surface Water Treatment Plant** - Mr. Lee advised SAWCo completed a predesign study for a surface water treatment plant at the Forebay. The projected costs came in at roughly \$2.5 million dollars. After initiating the study, the City of Upland found an opportunity to apply for grant money to expand their treatment plant to below the San Antonio Dam.

Mr. Lee recommends keeping the study on file until the City of Upland is given word on whether they will receive the grant money to expand their treatment plant. Should the City receive the grant money, SAWCo will not need to construct a treatment plant. However, if grant funding is not received, SAWCo will revisit the construction of its own treatment plant.

Director Velto moved and Director Goss seconded to approve tabling the item until it is known whether the City of Upland will receive grant funding to expand their treatment plant. Motion carried unanimously.

- D. Campus Feasibility Study Ad Hoc Committee** – Mr. Lee reported in the past staff has had an ad hoc committee comprised of Board members to help guide the Campus project. The ad hoc committee has not met in some time and at the last Board meeting it was suggested to begin meeting again regularly. The committee is typically comprised of the chair of the AFC and PROC as well as the Board President.

Director Velto moved and Director Parker seconded to have the Campus Feasibility Study Ad Hoc Committee begin meeting again regularly and to be comprised of SAWCo's Board President and the chair of the AFC and PROC. Motion carried unanimously.

- E. Ratify Resolutions Honoring Retiring Chino Basin Water Conservation District (CBWCD) Directors** – Director Parker explained the CBWCD board meeting where both directors Margaret Hamilton and Marc Grupposo retired took place the previous evening. At the October SAWCo Board meeting, it was agreed that a resolution would be drawn up. The SAWCo Board is now requested to ratify the resolutions presented to the retiring CBWCD board members.

Director Velto moved and Director Bowcock seconded to ratify Resolutions 2022-11-01 and 2022-11-02 honoring retiring CBWCD directors Grupposo and Hamilton. Motion carried unanimously.

7. Closed Session: None.

8. Director's Comments and Future Agenda Items: Director Velto recognized Director Parker for recently being elected to the CBWCD board of directors.

Director Elliott clarified the next regular Board meeting is scheduled for Tuesday, December 20<sup>th</sup>.

Mr. Lee drew attention to the printout on the dais of an email exchange between himself and a shareholder. The shareholder is requesting the Board review minimum share requirements for developments.

Director Cable advised he read through the email chain and agrees with Mr. Lee's responses. He stated the item was previously reviewed and the minimum shareholder requirements should remain as previously agreed upon.

November 15, 2022

Director Velto inquired about the most recent water stock sealed bid auction. Mr. Lee advised it was held earlier in the day. The results were posted on the company website with one of the  $\frac{1}{4}$  share going for \$16,888 and the other  $\frac{1}{4}$  share going for \$15,053.

Adjournment:

With no further business to discuss the meeting was adjourned at 5:25 p.m.

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Assistant Secretary  
Brian Lee

Agenda Date: December 1, 2022

Agenda Item No. 5C  
Item Title: Well 31 Rehab

Purpose:

Rehabilitation of Well 31

Issues:

Should the Company rehabilitate Well 31?

Manager's Recommendation:

Authorize a construction contract with General Pump Company for a not-to-exceed amount of \$200,000 for the rehabilitation of Well 31

Backgrounds

Well 31 suffered a catastrophic failure earlier this year. Staff has been working with a reputable Well Company to diagnose the issues and develop a solution. Well 31 is a critical facility. It is the only source of water for Reservoir 1 when there is no canyon water. Reservoir 1 is the only source of SAWCO water for Holiday Rock.

Staff has received the attached report and cost proposal from General Pump Company. Staff considers this a critical infrastructure project and has included this project in the draft 2023 budget

Previous Action: None

Impact on Budget: \$220,000 proposed in the 2023 draft budget



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CAMARILLO, CA 93010 \* PHONE: (805) 482-1215  
[www.genpump.com](http://www.genpump.com)

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**WELL & PUMP SERVICE SINCE 1952**

Lic. #496765

*Serving Southern California and Central Coast*

November 16, 2022

*Via Email*

San Antonio Water Company  
139 North Euclid Avenue  
Upland, California 91786  
*Attn: Tommy Hudspeth*

***Subject: Well 31 Repair and Installation Quote***

General Pump Company recently removed your pump equipment that had excessive vibration. This quote is for the recommended repairs, reinstallation and start up. It also includes the rewind of the existing motor and comes standard with a two (2) year warranty. Based on past and recent pumping water levels, I am recommending the pump be set at a depth of 422' BGS. I would also recommend that the overall flow rate be reduced to 1800 GPM. The existing pump bowls have massive wear from turbidity and sand particulate matter. The static level has dropped approximately 28' since February 2022' with the pumping water level at approximately 330' this is dewatering about 133' of the top screened interval. The existing packer and long suction pipe will also not be utilized on the reinstallation. The new suggested pump setting is 422''. This will allow for a more efficient overall wire to water electrical savings. Please allow 4-6 weeks for repairs and reinstallation after approval.

In review of the well video and understanding the construction is mild steel with hydraulic louvers, the well has moderate to heavy nodular growth throughout the screen. I am suggesting to wire brush the 20" screen portion of the well casing. The brush has a granular chlorine (HTH) chamber, so as we brush, we distribute a mild chlorine solution. Anything other or more aggressive than brushing (propose using small barrel for "soft" wire brush) is a risk and could pose unwanted damage to the casing. Again, the video does show mild to moderate plugging with turbicicle growth becoming heavier in the deeper portion of the well. To further express less may be better with this well, is the recent pump test and indicates the well to be fairly efficient even in the many years of service. Sand pumping is a problem with this well, the bowls are being constructed to withstand as much air and sediment as possible, the bowl impellers are constructed of 201 SS, the hardest materials available in the industry. This quote includes all shop labor, field labor, materials, and startup costs.



**COST**

**SHOP LABOR**

• Unload and stage new pump materials; quality assurance	6
• Check proper fit of new suction pipe and strainer; weld lugs and prepare for installation	2
• Tear down and inspect new bowl assembly; reassemble and prepare for installation	8
• Check proper fit of new column pipe; steam-clean and prepare for installation	6
• Check proper fit of new T&S assemblies; stab in column and prepare for installation	8
• Check proper fit of BWS centralizer	1
• Remove top column flange and nipple from discharge head	2
• Pressure-wash and wire brush top column flange; machine parallel faces	4
• Deliver head to Sandblaster; Load-up, trave time, and unloading	2
• Pick-up head from Sandblaster; travel time, load-up, and unloading	2
• Machine new top column pipe	4
• Machine discharge head parallel and concentric to pump center line	8
• Install top column flange and nipple on discharge head; paint and prepare for installation	4
• Check proper fit of new L&B tension assembly	1
• Machine new top tube; install tension assembly and prepare for installation	5
• Machine new head shaft; install nut & key and prepare for installation	6
• Check proper fit of new PVC sounding tube; stage and prepare for installation	1
• Check proper fit of new Airline assembly; gather bracket & fittings and prep for installation	1
• Gather necessary gaskets, fittings, bolting/Stage all equipment and prepare for installation	2
• Dispose leftover materials	2
	<b>75 Hrs. @ \$106/Hr.</b>
	<b><u>\$7,950.00</u></b>

**MATERIALS**

•10" 316SS Cone Strainer	\$792.00
•10" X 10' X .279" TOE NPT Suction Pipe	712.00
•14LH-7STG Hydroflo O/L Bowl Assembly	26,636.00
•12" X 20' X .375" TNC Butt Pipe	50,750.00
•3" X 1-15/16" X 20' T&S Assembly	33,228.00
•12" BWS Centralizer	368.00
•12" X 2' X .375" TBE Butt Nipple	768.00
•Top Column Flange Gasket & Bolt Kit	72.00
•Materials to Refurbish 12" Discharge Head	220.00
•3" X 1-15/16" L&B Tension Assembly	2,170.00
•3" Top Stretch Tube	382.00
•1-15/16" C-1045 Head Shaft w/ Nut & Key	1,270.00
•1-1/4" X 10' SCH-80 Flush-Thread PVC Pipe	3,768.00
•1/4" SS Airline Assembly w/ Gauge, Bracket, and Fittings	1,740.00
•Banding and Buckles for Airline Assembly	275.00
•Dripper Assembly w/ Manual Bypass	398.00
•12" 150# Discharge Gasket	32.00
•J-Box Electrical Connection Kit	320.00
•5 Gal Pail - Turbine Oil for T&S Installation	174.00
•Consumables (Grease, Sealer, Solvent, Etc...)	268.00
•Shipping & Handling	594.00
•Sales Tax @ 7.75%	9,682.62

**\$134,619.62**





**OUTSIDE SERVICES**

• Sandblast Discharge Head	\$528.00	
• Post Video Log	1,200.00	
• Repair 350HP Newman VHS Motor; Rewind, Bearings, New Driver (Material: \$5,734.00 / Labor: \$11,280.00)	17,014.00	
		<b><u>\$18,742.00</u></b>

**RENTAL EQUIPMENT**

• Portable Toilet	\$600.00	
• Wire Brush	\$675.00	<b><u>\$1,275.00</u></b>

**FIELD LABOR: (WIRE BRUSHING)**

•Mob to site, conduct brief tailgate safety meeting		
•Confirm lock out-tag out of energy source		
•Remove roof and set aside, set up combi rig		
•Wire brush well form static level to 1250' BGS		
•Prep well for re-video		
Rotary crane and one man. Estimated 5 Hrs. @ 299/Hr.	\$1,495.00	
2 man crew and combination rig. Est. 20 Hrs. @ \$489/Hr.	\$9,780.00	
Est. OT 4 Hrs. @ \$130/Hr.	\$520.00	
		<b><u>\$11,795.00</u></b>

**FIELD LABOR: (INSTALL EQUIPMENT)**

•Mob to site, conduct brief tailgate safety meeting		
•Conduct tailgate meeting.		
•Lock-out/ tag-out energy source.		
•Set up equipment		
•Install repaired pump and motor		
•Wire motor, check rotation, adjust pump.		
•Rig down and demobilize		
2 Men, rig, and service truck @ \$425/Hr.		
1 man and rotary crane-17T and below @ \$285/Hr.		
Est. 30 Hrs. @ 710/Hr.	\$21,300.00	
Est. OT – 6 Hrs. @ 165/Hr.	\$990.00	
		<b><u>\$22,290.00</u></b>
Perform start up and record data		
Service truck and pump mechanic Est. 8 Hrs. @ \$185/Hr.		<b><u>\$1,480.00</u></b>

**GRAND TOTAL** **\$198,151.62**

Should you have any questions or need additional information regarding the above summary and associated cost, please do not hesitate to contact us. Thank you.

**GENERAL PUMP COMPANY, INC.**

*Tom Nanchy*

Tom Nanchy  
Sr. Project Manager / Project Engineer

Company:  
 Name:  
 Date: 11/15/2022



**Pump:**

Size: 14LH (stages: 7)      Dimensions:  
 Type: Vertical      Suction: 10 in  
 Synch Speed: 1800 rpm      Discharge: 12 in  
 Dia: 10.86 in      Vertical Turbine:  
 Curve: 121110      Eye Area: 25.3 in<sup>2</sup>  
 Impeller: 14LH SS ENCL.      Bowl Size: 14 in  
    Max Lateral: 0.875 in  
    Thrust K Factor: 8.41 lb/ft

**Fluid:**

Name: Water  
 SG: 1      Vapor Pressure: 0.256 psi a  
 Density: 62.4 lb/ft<sup>3</sup>      Atm Pressure: 14.7 psi a  
 Viscosity: 1.1 cP  
 Temperature: 60 °F      Margin Ratio: 1

**Search Criteria:**

Flow: 1800 US gpm      Near Miss: ---  
 Head: 570 ft      Static Head: 0 ft

**Pump Limits:**

Temperature: 140 °F      Sphere Size: 0.5 in  
 Wkg Pressure: 300 psi g      Power: 600 hp

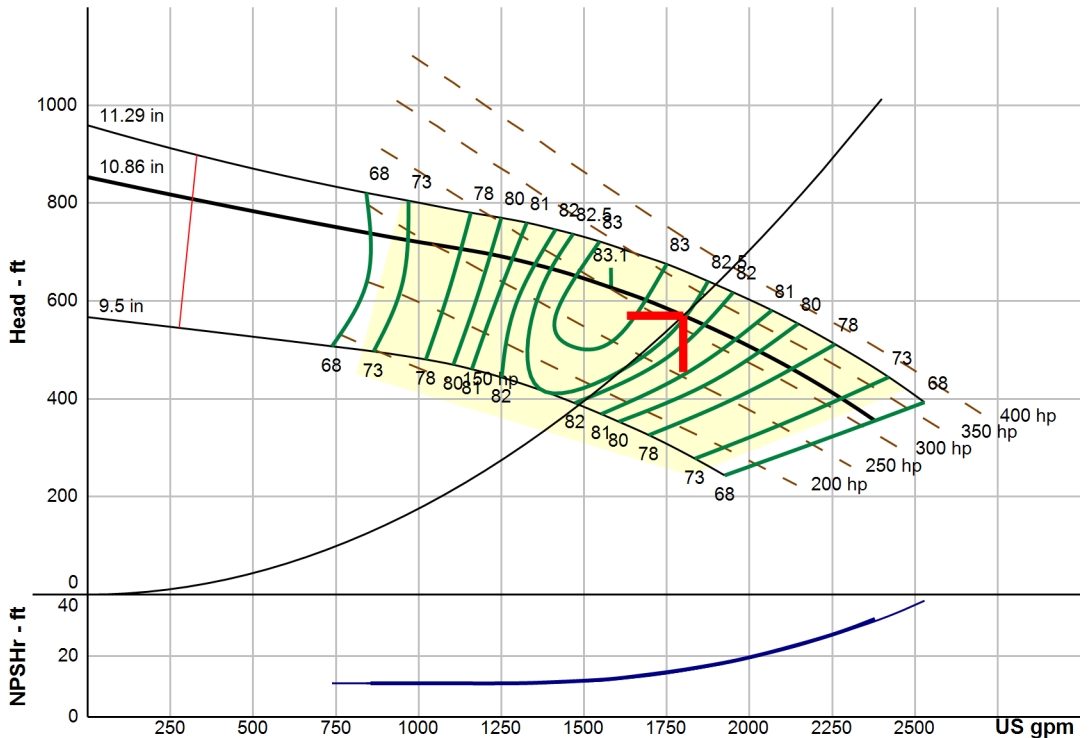
**Motor:**

Standard: NEMA      Size: 350 hp  
 Enclosure: WP1      Speed: 1800 rpm  
 Frame: 449T  
 Sizing Criteria: Max Power on Design Curve

**Pump Selection Warnings:**

Pump shutoff dP exceeds limit for the pump.

--- Duty Point ---	
Flow:	1800 US gpm
Head:	570 ft
Eff:	82.5%
Power:	314 hp
NPSHr:	15.5 ft
Speed:	1770 rpm
--- Design Curve ---	
Shutoff Head:	853 ft
Shutoff dP:	370 psi
Min Flow:	316 US gpm
BEP:	83.1% @ 1582 US gpm
NOL Power:	318 hp @ 2031 US gpm
--- Max Curve ---	
Max Power:	375 hp @ 2147 US gpm



**Performance Evaluation:**

Flow	Speed	Head	Efficiency	Power	NPSHr
US gpm	rpm	ft	%	hp	ft
2160	1770	449	76.9	318	24.1
1800	1770	570	82.5	314	15.5
1440	1770	658	82.8	289	11.6
1080	1770	712	76.5	253	11
720	1770	756	62.1	224	11