



Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

Notice and Agenda of a Meeting of the Board of Directors

Tuesday, September 8, 2020 at 4:00 p.m.

Due to the spread of COVID-19 and in accordance with the Governor's Executive Order N-29-20 (a copy of which is attached to this agenda), the Yucaipa Valley Water District will be conducting this meeting by teleconference only. Public comments on matters listed on the agenda or on any matter within the District's jurisdiction will be received during Public Comments, Agenda Item No. III.

**This meeting is available by calling
(888) 475-4499 using passcode 676-950-731#**

**View live presentation material at
<https://zoom.us/j/676950731>**

There will be no public physical location for attending this meeting in person. The District's Board meeting room will be closed to the public until further notice.

If you are unable to participate by telephone, you may submit comments and/or questions in writing for the Board's consideration by sending them to inquiry@yvwd.us. Submit your written inquiry prior to the start of the meeting. All public comments received prior to the start of the meeting will be provided to the Board and may be read into the record or compiled as part of the record.

- I. CALL TO ORDER**
- II. ROLL CALL**
- III. PUBLIC COMMENTS** - At this time, members of the public may briefly address the Board of Directors on matters within its jurisdiction or on any matter listed on this agenda.

Any person who requires accommodation to participate in this meeting should contact the District office at (909) 797-5117, at least 48 hours prior to the meeting to request a disability-related modification or accommodation.

Materials that are provided to the Board of Directors after the meeting packet is compiled and distributed will be made available for public review during normal business hours at the District office located at 12770 Second Street, Yucaipa. Meeting materials are also available on the District's website at www.yvwd.dst.ca.us

IV. CONSENT CALENDAR - All consent calendar matters are routine and will be acted upon in one motion. There will be no discussion of these items unless board members, administrative staff, or members of the public request specific items to be discussed and/or removed prior to the vote for approval.

- A. Minutes of Meetings
 - 1. Board Meeting - September 1, 2020

V. STAFF REPORT

VI. DISCUSSION ITEMS

- A. Approval of Fund Transfers for the Design of the R-16.2 Reservoir Complex [[Director Memorandum No. 20-131 - Page 14 of 42](#)]
RECOMMENDED ACTION: That the Board adopt Resolution No. 2020-38 to authorize the transfer of reserve funds for the design of drinking water and recycled water reservoir R-16.2, pipelines, and booster stations in the amount of \$392,500.
- B. Replacement of the Microfiltration Strainers at the Wochholz Regional Water Recycling Facility [[Director Memorandum No. 20-132 - Page 16 of 42](#)]
RECOMMENDED ACTION: That the Board authorize the District staff to procure and manage the installation of six Forsta strainers at the Wochholz Regional Water Recycling Facility for a sum not to exceed \$487,000 and adopt Resolution No. 2020-39.
- C. Consideration of Resolution No. 2020-40 Approving the Notice of Exemption for the Annual Maintenance of the Oak Glen Basins [[Director Memorandum No. 20-133 - Page 30 of 42](#)]
RECOMMENDED ACTION: That the Board adopt Resolution No. 2020-40.
- D. Discussion Regarding the Revision to the Personnel Manual Language Regarding Holiday Time Accrued [[Director Memorandum No. 20-134 - Page 33 of 42](#)]
RECOMMENDED ACTION: That, by minute order, the Board approve the proposed exception to the Personnel Manual for November and December 2020.

VII. BOARD REPORTS & DIRECTOR COMMENTS

VIII. ANNOUNCEMENTS

- A. September 15, 2020 at 4:00 p.m. - Board Meeting - **Teleconference Only**
- B. September 22, 2020 at 4:00 p.m. - Board Meeting - **Teleconference Only**
- C. September 29, 2020 at 4:00 p.m. - Board Meeting - **Teleconference Only**
- D. October 6, 2020 at 4:00 p.m. - Board Meeting - **Teleconference Only**
- E. October 13, 2020 at 4:00 p.m. - Board Meeting - **Teleconference Only**
- F. October 20, 2020 at 4:00 p.m. - Board Meeting - **Teleconference Only**
- G. October 27, 2020 at 4:00 p.m. - Board Meeting - **Teleconference Only**
- H. November 3, 2020 at 4:00 p.m. - Board Meeting - **Teleconference Only**

IX. CLOSED SESSION

- A. Conference with Legal Counsel - Anticipated Litigation (Government Code 54956.9) - Two Cases
- B. Conference with Labor Negotiator (Government Code 54957.6)
District Negotiator: Joseph Zoba, General Manager
Employee Organization: YVWD Supervisory Employees

X. ADJOURNMENT

**EXECUTIVE DEPARTMENT
STATE OF CALIFORNIA**

EXECUTIVE ORDER N-29-20

WHEREAS on March 4, 2020, I proclaimed a State of Emergency to exist in California as a result of the threat of COVID-19; and

WHEREAS despite sustained efforts, the virus continues to spread and is impacting nearly all sectors of California; and

WHEREAS the threat of COVID-19 has resulted in serious and ongoing economic harms, in particular to some of the most vulnerable Californians; and

WHEREAS time bound eligibility redeterminations are required for Medi-Cal, CalFresh, CalWORKs, Cash Assistance Program for Immigrants, California Food Assistance Program, and In Home Supportive Services beneficiaries to continue their benefits, in accordance with processes established by the Department of Social Services, the Department of Health Care Services, and the Federal Government; and

WHEREAS social distancing recommendations or Orders as well as a statewide imperative for critical employees to focus on health needs may prevent Medi-Cal, CalFresh, CalWORKs, Cash Assistance Program for Immigrants, California Food Assistance Program, and In Home Supportive Services beneficiaries from obtaining in-person eligibility redeterminations; and

WHEREAS under the provisions of Government Code section 8571, I find that strict compliance with various statutes and regulations specified in this order would prevent, hinder, or delay appropriate actions to prevent and mitigate the effects of the COVID-19 pandemic.

NOW, THEREFORE, I, GAVIN NEWSOM, Governor of the State of California, in accordance with the authority vested in me by the State Constitution and statutes of the State of California, and in particular, Government Code sections 8567 and 8571, do hereby issue the following order to become effective immediately:

IT IS HEREBY ORDERED THAT:

1. As to individuals currently eligible for benefits under Medi-Cal, CalFresh, CalWORKs, the Cash Assistance Program for Immigrants, the California Food Assistance Program, or In Home Supportive Services benefits, and to the extent necessary to allow such individuals to maintain eligibility for such benefits, any state law, including but not limited to California Code of Regulations, Title 22, section 50189(a) and Welfare and Institutions Code sections 18940 and 11265, that would require redetermination of such benefits is suspended for a period of 90 days from the date of this Order. This Order shall be construed to be consistent with applicable federal laws, including but not limited to Code of Federal Regulations, Title 42, section 435.912, subdivision (e), as interpreted by the Centers for Medicare and Medicaid Services (in guidance issued on January 30, 2018) to permit the extension of

otherwise-applicable Medicaid time limits in emergency situations.

2. Through June 17, 2020, any month or partial month in which California Work Opportunity and Responsibility to Kids (CalWORKs) aid or services are received pursuant to Welfare and Institutions Code Section 11200 et seq. shall not be counted for purposes of the 48-month time limit set forth in Welfare and Institutions Code Section 11454. Any waiver of this time limit shall not be applied if it will exceed the federal time limits set forth in Code of Federal Regulations, Title 45, section 264.1.
3. Paragraph 11 of Executive Order N-25-20 (March 12, 2020) is withdrawn and superseded by the following text:

Notwithstanding any other provision of state or local law (including, but not limited to, the Bagley-Keene Act or the Brown Act), and subject to the notice and accessibility requirements set forth below, a local legislative body or state body is authorized to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public seeking to observe and to address the local legislative body or state body. All requirements in both the Bagley-Keene Act and the Brown Act expressly or impliedly requiring the physical presence of members, the clerk or other personnel of the body, or of the public as a condition of participation in or quorum for a public meeting are hereby waived.

In particular, any otherwise-applicable requirements that

- (i) state and local bodies notice each teleconference location from which a member will be participating in a public meeting;
- (ii) each teleconference location be accessible to the public;
- (iii) members of the public may address the body at each teleconference conference location;
- (iv) state and local bodies post agendas at all teleconference locations;
- (v) at least one member of the state body be physically present at the location specified in the notice of the meeting; and
- (vi) during teleconference meetings, at least a quorum of the members of the local body participate from locations within the boundaries of the territory over which the local body exercises jurisdiction

are hereby suspended.

A local legislative body or state body that holds a meeting via teleconferencing and allows members of the public to observe and address the meeting telephonically or otherwise electronically, consistent with the notice and accessibility requirements set forth below, shall have satisfied any requirement that the body allow

members of the public to attend the meeting and offer public comment. Such a body need not make available any physical location from which members of the public may observe the meeting and offer public comment.

Accessibility Requirements: If a local legislative body or state body holds a meeting via teleconferencing and allows members of the public to observe and address the meeting telephonically or otherwise electronically, the body shall also:

- (i) Implement a procedure for receiving and swiftly resolving requests for reasonable modification or accommodation from individuals with disabilities, consistent with the Americans with Disabilities Act and resolving any doubt whatsoever in favor of accessibility; and
- (ii) Advertise that procedure each time notice is given of the means by which members of the public may observe the meeting and offer public comment, pursuant to subparagraph (ii) of the Notice Requirements below.

Notice Requirements: Except to the extent this Order expressly provides otherwise, each local legislative body and state body shall:

- (i) Give advance notice of the time of, and post the agenda for, each public meeting according to the timeframes otherwise prescribed by the Bagley-Keene Act or the Brown Act, and using the means otherwise prescribed by the Bagley-Keene Act or the Brown Act, as applicable; and
- (ii) In each instance in which notice of the time of the meeting is otherwise given or the agenda for the meeting is otherwise posted, also give notice of the means by which members of the public may observe the meeting and offer public comment. As to any instance in which there is a change in such means of public observation and comment, or any instance prior to the issuance of this Order in which the time of the meeting has been noticed or the agenda for the meeting has been posted without also including notice of such means, a body may satisfy this requirement by advertising such means using "the most rapid means of communication available at the time" within the meaning of Government Code, section 54954, subdivision (e); this shall include, but need not be limited to, posting such means on the body's Internet website.

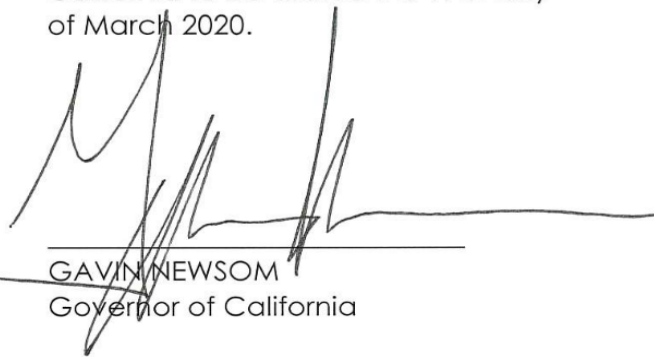
All of the foregoing provisions concerning the conduct of public meetings shall apply only during the period in which state or local public health officials have imposed or recommended social distancing measures.

All state and local bodies are urged to use sound discretion and to make reasonable efforts to adhere as closely as reasonably possible to the provisions of the Bagley-Keene Act and the Brown Act, and other applicable local laws regulating the conduct of public meetings, in order to maximize transparency and provide the public access to their meetings.

IT IS FURTHER ORDERED that as soon as hereafter possible, this Order be filed in the Office of the Secretary of State and that widespread publicity and notice be given of this Order.

This Order is not intended to, and does not, create any rights or benefits, substantive or procedural, enforceable at law or in equity, against the State of California, its agencies, departments, entities, officers, employees, or any other person.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 17th day of March 2020.



GAVIN NEWSOM
Governor of California

Consent Calendar



Yucaipa Valley Water District

MINUTES OF A BOARD MEETING - TELECONFERENCE

September 1, 2020 at 4:00 P.M.

Directors Present:

Chris Mann, President
Lonni Granlund, Vice President
Jay Bogh, Director
Joyce McIntire, Director
Dennis Miller, Director

Staff Present:

Wade Allsup, Information Systems Specialist
Jennifer Ares, Water Resource Manager
Madeline Blua, Water Resource Specialist
Allison Edmisten, Chief Financial Officer
Chelsie Fogus, Administrative Assistant I
Ashley Gibson, Regulatory Compliance Manager
Kathryn Hallberg, Implementation Manager
Dustin Hochreiter, Senior Engineering Technician
Steven Molina, Public Works Supervisor
Charles Thomas, Operations Manager
John Wrobel, Public Works Manager
Joseph Zoba, General Manager

Directors Absent:

None

Consulting Staff Present:

David Wysocki, Legal Counsel

Registered Guests and Others Present:

Logan Largent, Ortega Strategies Group
Leonard Stephenson, San Gorgonio Pass Water Agency

Due to the spread of COVID-19 and in accordance with the Governor's Executive Order N-29-20 (a copy of which was attached to the meeting agenda), the Yucaipa Valley Water District conducted this meeting by teleconference.

The meeting was available to the public by calling (888) 475-4499 using passcode 676-950-731 and live presentation material was available at <https://zoom.us/j/676950731>.

CALL TO ORDER

The regular meeting of the Board of Directors of the Yucaipa Valley Water District was called to order by Chris Mann at 4:00 p.m.

ROLL CALL

The roll was called with Director Jay Bogh, Director Lonni Granlund, Director Chris Mann, Director Joyce McIntire, and Director Dennis Miller present.

PUBLIC COMMENTS

None

CONSENT CALENDAR

Director Jay Bogh moved to approve the consent calendar and Director Lonni Granlund seconded the motion.

A. Minutes of Meetings

1. Board Meeting - August 25, 2020

The motion was approved by the following vote:

Director Jay Bogh - Yes
Director Lonni Granlund - Yes
Director Chris Mann - Yes
Director Joyce McIntire - Yes
Director Dennis Miller - Yes

STAFF REPORT

A staff report was not provided at this board meeting.

DISCUSSION ITEMS:

DM 20-129

OVERVIEW OF THE ECONOMIC
BENEFITS OF INVESTING IN
WATER INFRASTRUCTURE BY
THE AMERICAN SOCIETY OF
CIVIL ENGINEERS

General Manager Joseph Zoba provided an overview of the American Society of Civil Engineers recent report about the need to invest in water infrastructure in America.

DM 20-130

CONSIDERATION OF DISTRICT
STAFF TO PREPARE PLANS
FOR THE CONSTRUCTION OF
RECYCLED WATER FILL
STATION NO. 2

General Manager Joseph Zoba shared a concept to design and construct Recycled Water Fill Station No. 2 on District owned property on 5th Street, north of Wildwood Canyon Road.

Director Lonni Granlund moved that the Board authorize the District staff to develop plans for the construction Recycled Water Fill Station No. 2 on 5th Street north of Wildwood Canyon Road, Yucaipa. .

Director Dennis Miller seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Absent
Director Lonni Granlund - Yes
Director Chris Mann - Yes
Director Joyce McIntire - Yes
Director Dennis Miller - Yes

BOARD REPORTS AND
DIRECTOR COMMENTS

Director Joyce McIntire reported on the Yucaipa Sustainable Groundwater Management Agency meeting held on August 26, 2020.

Director Joyce McIntire reported on the San Gorgonio Pass Regional Water Alliance meeting held on August 26, 2020.

Director Joyce McIntire and Director Lonni Granlund reported on the Beaumont Basin Watermaster meeting August 27, 2020.

Director Joyce McIntire and Director Lonni Granlund reported on the Riverside County Water Task Force meeting about preparing for a megadrought on August 28, 2020.

ANNOUNCEMENTS

Director Chris Mann called attention to the announcements listed on the agenda.

CLOSED SESSION

Director Lonni Granlund, Director Chris Mann, Director Joyce McIntire, and Director Dennis Miller were present in closed session with Legal Counsel David Wysocki, Chief Financial Officer Allison Edmisten, and General Manager Joseph Zoba to discuss the following items.

- A. Conference with Legal Counsel - Anticipated Litigation (Government Code 54956.9) - Two Cases
- B. Conference with Labor Negotiator (Government Code 54957.6)
District Negotiator: Joseph Zoba, General Manager
Employee Organization: YVWD Supervisory Employees

After reconvening out of closed session, Legal Counsel David Wysocki reported that direction was provided and that there were no reportable actions taken.

ADJOURNMENT

The meeting was adjourned at 4:55 p.m.

Respectfully submitted,

Joseph B. Zoba, Secretary

(Seal)

Staff Report



Yucaipa Valley Water District

Discussion Items



Yucaipa Valley Water District



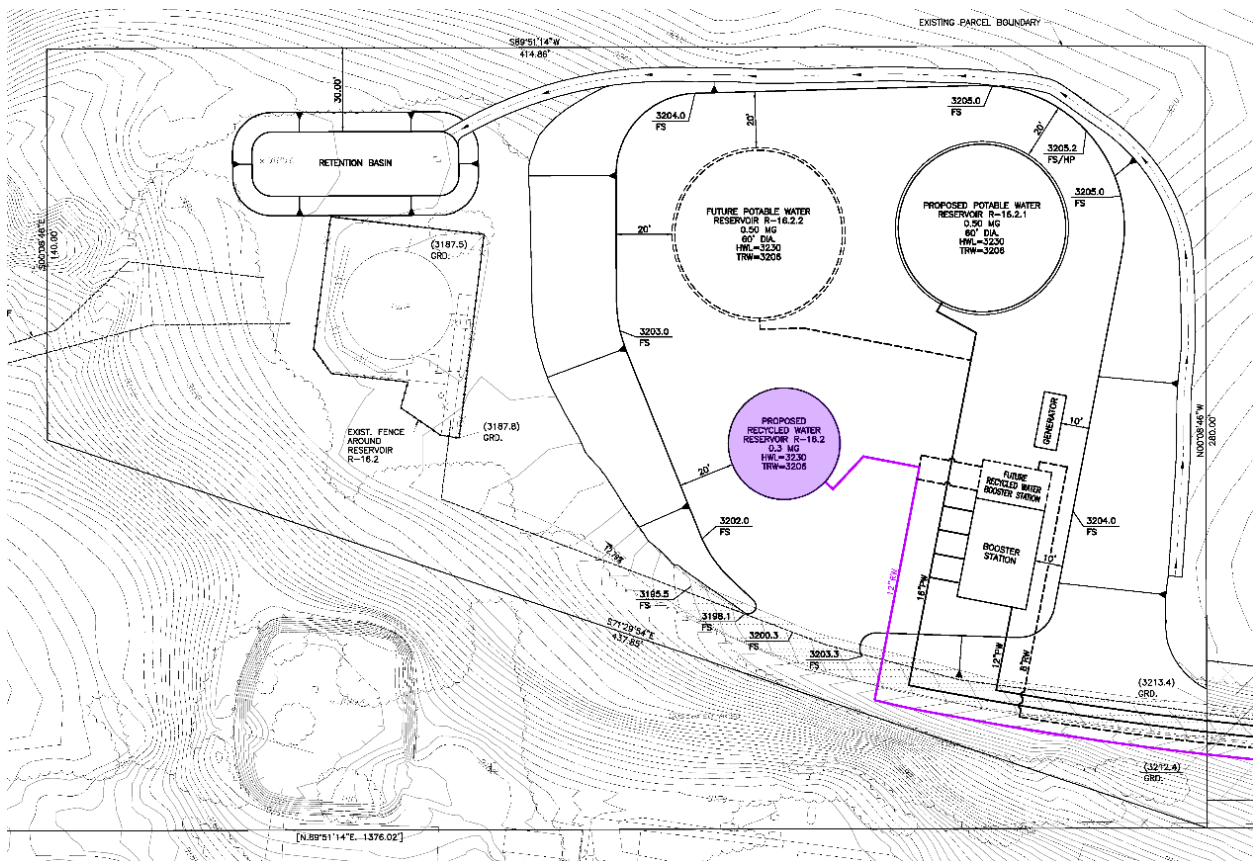
Date: September 8, 2020

Prepared By: Allison M. Edmisten, Chief Financial Officer

Subject: Approval of Fund Transfers for the Design of the R-16.2 Reservoir Complex

Recommendation: That the Board adopt Resolution No. 2020-38 to authorize the transfer of reserve funds for the design of drinking water and recycled water reservoir R-16.2, pipelines, and booster stations in the amount of \$392,500.

At the board meetings on May 26, 2020 [Director Memorandum 20-085] and June 16, 2020 [Director Memorandum 20-104], the Board authorized Krieger and Stewart to prepare the final design of the drinking water and recycled water facilities as part of the R-16.2 Reservoir Complex. The purpose of this memorandum is to document the transfer of reserve funds associated with the design expenses for these facilities.



RESOLUTION NO. 2020-38

RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT TRANSFERRING FUNDS WITHIN THE WATER FUND AS TRANSFER NO. 5, AND THE RECYCLED WATER FUND AS TRANSFER NO. 6 FOR FISCAL YEAR 2021

WHEREAS, the Yucaipa Valley Water District recognizes the importance of funding projects and programs within the District with funds set aside for this purpose, and

WHEREAS, the Board of Directors has approved the design of drinking water and recycled water reservoir R-16.2, pipelines, and booster stations.

NOW, THEREFORE, the Board of Directors of the Yucaipa Valley Water District hereby RESOLVE, DETERMINE, and ORDER as follows:

Section 1: Fund Transfer No. 5 in the total amount of \$185,700 from the Water Fund:

- \$33,890 from FCC Water Storage Reserves (02-000-10413) to fund 18.25% of the design.
- \$87,836 from FCC Booster Pumping Plants Reserves (02-000-10411) to fund 47.30% of the design.
- \$63,974 from FCC Pipeline Facilities Reserves (02-000-10412) to fund 34.45% of the design.

Section 2: Fund Transfer No. 6 in the total amount of \$206,800 from the Recycled Water Fund:

- \$37,741 from FCC Water Storage Reserves (04-000-10413) to fund 18.25% of the design.
- \$97,816 from FCC Booster Pumping Plants Reserves (04-000-10411) to fund 47.30% of the design.
- \$71,243 from FCC Pipeline Facilities Reserves (04-000-10412) to fund 34.45% of the design.

PASSED, APPROVED and ADOPTED this 8th day of September 2020.

YUCAIPA VALLEY WATER DISTRICT

Chris Mann, President Board of Directors

ATTEST:

Joseph B. Zoba, General Manager



Date: September 8, 2020

Prepared By: Charles Thomas, Operations Manager

Subject: Replacement of the Microfiltration Strainers at the Wochholz Regional Water Recycling Facility

Recommendation: That the Board authorize the District staff to procure and manage the installation of six Forsta strainers at the Wochholz Regional Water Recycling Facility for a sum not to exceed \$487,000 and adopt Resolution No. 2020-39.

The Wochholz Regional Water Recycling Facility's (WRWRF) microfiltration system is designed with a feed strainer at each of the six pumps that supply untreated water to the microfiltration racks. Historically, the District staff has experienced issues with sand and snail shells in the filter feed water due to the secondary equalization basin being an open basin and allowing for the accumulation of debris. This debris can cause microfiltration fiber breaks.



The Pall microfiltration system requires that the pre-strainers have a size that is less than 500 microns which is about 2/100s of an inch.

The proposed Forsta auto strainer equipment would provide the microfiltration membranes with high quality filter feed water with a 300-micron screen rating. While the Forsta strainers have a



smaller screen size, they are engineered with a greater surface area to withstand high turbidity conditions in the filter feed water. The District staff recommends that the Board authorize the General Manager to procure six Forsta auto strainers as well as authorize the installation of this equipment for a sum not to exceed \$487,000.

Financial Impact

This project will be funded by the Sewer Fund, Infrastructure Reserves [G/L Account #03-000-10311]. Yucaipa Valley Water District Resolution 2020-39 (attached) would authorize the transfer of funds from the Reserve Funds for the purchase and installation of the Forsta auto strainers.



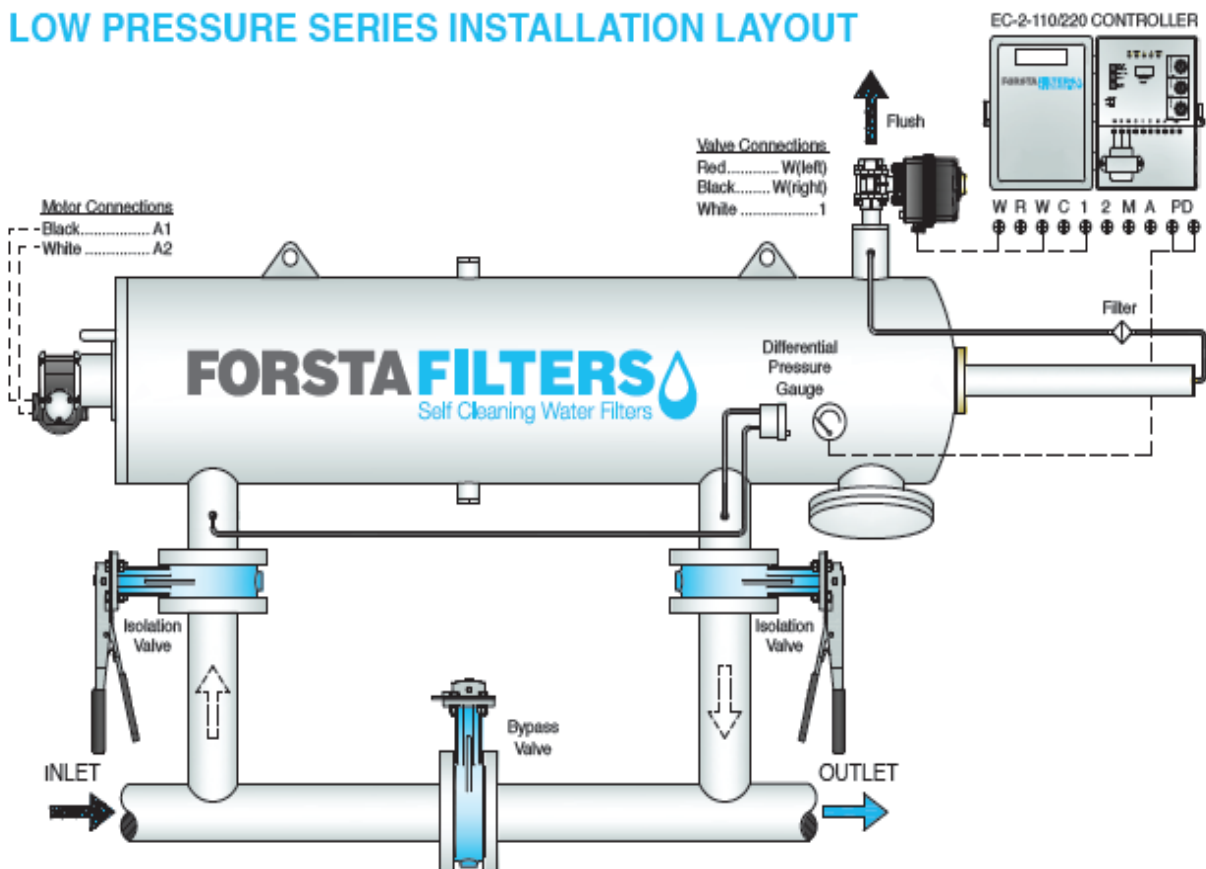
LOW PRESSURE SERIES APPLICATIONS

Low Pressure Series filters are ideal for industrial closed loop and side-stream applications. Low pressure units increase the range of applications where self-cleaning screen filters may be used, including cooling towers, heat exchangers, and many other equipment protection applications where system pressure is relatively low.

Low Pressure Series filters also provide an excellent solution for irrigation applications including golf, turf, landscape, agriculture, greenhouse, and nursery. Lower pressure requirements allow for seamless integration, avoiding potential system pump redesign.

Typical material of construction for the filter bodies is stainless steel. Forsta also offers a variety of alternative materials for more corrosive environments. Alternative materials include titanium, carbon steel with epoxy coating, and sea water alloys including duplex 2101, 2205, and super duplex 2507.

LOW PRESSURE SERIES INSTALLATION LAYOUT





Separation Processes, Inc.
3152 Lionshead Ave.
Carlsbad, CA 92010
Tel: 760-400-3660
Fax: 760-400-3661
www.spi-engineering.com

August 19, 2020

Joseph Zoba
General Manager
Yucaipa Valley Water District
12220 Second Street
Yucaipa, CA 92399

Subject: Yucaipa Valley Water District – Wochholz Regional Water Recycling Facility
MF Autostrainer Replacement

Dear Mr. Zoba:

At the request of the District, Separation Processes, Inc. (SPI) has prepared this letter to summarize the costs and schedule associated with MF autostrainer replacement at the Wochholz RWRf.

The primary reason for the replacement of the existing autostrainers is that the Forsta autostrainers uses a woven wire mesh in lieu of a slotted screen which minimizes the downstream presence of snail shells. Snail shells can damage the membranes and should be avoided. The Forsta autostrainers also provide more filter area compared to the existing Fluid Engineering autostrainers (MF Units 1-5) and the existing Amiad autostrainer (MF Unit 6). This additional filter area will facilitate operation of the MF Units during MF feed water high turbidity events.

Construction Estimate

The estimate for the MF autostrainer replacement is \$487,000 and is summarized in the following table. Supporting documentation is included with this letter.

August 19, 2020
 Mr. Joseph B. Zoba
 Subject: YVWD WRWRF MF Autostrainer Replacement
 Page 2



Wochholz RWRF MF Autostrainer Replacement (6 units)					
Item	Qty	Unit	Each	Line Items	Total
Forsta Autostrainer	6	ea	\$ 19,490	\$ 116,940	
Forsta Autostrainer Control Panel	6	ea	\$ 3,775	\$ 22,650	
Sales Tax	7.75	%		\$ 10,818	
Shipping	1	lot	\$ 1,800	\$ 1,800	
Equipment Installation (Including Demo of Existing Autostrainers)	1	lot	\$ 229,111	\$ 229,111	
Panel Modifications, PLC/SCADA Programming	1	lot	\$ 28,880	\$ 28,880	
Subtotal				\$ 410,199	\$ 411,000
Contingencies	10	%			\$ 42,000
Engineering	5	%			\$ 21,000
Bonds and Insurance	3	%			\$ 13,000
Projected Construction Price					\$ 487,000

The estimate assumes:

- Pre-purchase of the Forsta autostrainers and associated control panels by the District
- Installation of the District-provided Forsta autostrainers and associated control panels by Pascal & Ludwig (P&L)
- Existing MF control panel modifications and SCADA/PLC programming by Q Versa

Schedule

It is understood that it is the District’s preference to complete the MF autostrainer replacement before the winter season. In order to minimize impacts on operation of the WRWRF, the autostrainer replacement will proceed one unit at a time, thereby making 5 MF units available for operation. Salient considerations for the schedule include:

- Autostrainer delivery is currently estimated to be 4 weeks from the date of purchase.
- P&L estimates a duration of 41 working days/62 calendar days from a Notice To Proceed (NTP) to complete the installation. This estimate is based on equipment items currently in stock – significant delays in issuing a NTP could result in delays in obtaining equipment items which could impact the installation duration and/or cost.

Quote Q21337

Issued Date: 06-29-2020
Valid for 30 days unless noted otherwise



Forsta Filters Inc.,
PO Box 6397,
Burbank, CA, 91510,
United States
Phone 310-837-7177, Fax 310-837-6477

Customer Information
Separation Processes, Inc. Jim Vickers

Application Information				
Yucaipa Wocholz WWTP, 6x E10-LP810-300u				
Item Name	Description	Quantity	Unit Price	Total
E10-LP180	Automatic Self Cleaning Filter made from stainless steel 304L. 10" flange Inlet/Outlet, 2" electric flushing valve. Operating pressure 20-150psi. Max temperature 150 F. The filter comes equipped with a high porosity stainless steel 316L screen 300 micron 12.25sq ft. screen for 180 series model E. ****Piston tank with 3 way solenid to be supplied with each filter ****	6	19,490	116,940
EC-4-LP-PLC-JZ-MW522A	PLC based automatic backwash controller for hydraulic and motor-driven Forsta self cleaning water filters. Initiates cleaning cycle for up to four filters in parallel by pressure differential, periodic or manual activation. 110/220 VAC input/ 24 VDC output, in a NEMA 4X enclosure and 0-15 pressure differential switch. Door mounted touch-screen HMI. Modbus TCP hardware and software per customer request Valve feedback integrated into terminal block and programming	6	3,775	22,650
Items Total				139,590
Shipping & Handling Charges				0
Tax(0)%				0
Adjustment				0
GRAND TOTAL(\$)				139,590

Terms and Conditions
Lead Time: 8-10 Weeks Payment Terms: TBD Shipping Via: TBD Shipping Terms: Ex-Works Los Angeles, CA Quotes are valid for thirty (30) days. Delivery Subject to availability. Pumps, Valves, and Custom Fabricated Items are Non-Returnable Filters and Filter Parts Only Returnable Within 90 Days of the Ship Date with Forsta Authorization and Subject to Restocking Fee

Skid Mounted Units Available Upon Request
<https://www.forstafilters.com/skid-mounted-filters/>



FERGUSON WATERWORKS #1088
 1502 COLUMBIA AVE
 RIVERSIDE, CA 92507-2014

Phone: 951-674-1323
 Fax: 951-674-1084

Deliver To:
From: Matt Kriste
Comments:

15:13:28 JUL 31 2020

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FERGUSON WATERWORKS #1083
 Price Quotation
 Phone: 951-674-1323
 Fax: 951-674-1084

Bid No: B375814
Bid Date: 07/31/20
Quoted By: MJK

Cust Phone: 909-947-4631
Terms: NET 10TH PROX

Customer: PASCAL & LUDWIG CONSTRUCTO
 2049 E FRANCIS ST
 SHOP
 ONTARIO, CA 91761

Ship To: PASCAL & LUDWIG CONSTRUCTO
 2049 E FRANCIS ST
 SHOP
 ONTARIO, CA 91761

Cust PO#:

Job Name: YUCAIPA CHK VLV

Item	Description	Quantity	Net Price	UM	Total
SP-TCV50DIB10	10 150# SLNT CHK VLV VALMATIC.	6	1672.940	EA	10037.64
Net Total:					\$10037.64
Tax:					\$777.92
Freight:					\$0.00
Total:					\$10815.56

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
 Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with "NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.
WATER FLOW RATE NOTICE: Lavatory Faucets with flow rates over 0.5 GPM are not allowed for 'public use' in California.



PH: (909) 465-0840

FAX: (909) 465-0943

August 6, 2020

To: Pascal & Ludwig constructors

Quote 20-087

Wochholz Strainer Replacement

316 sch 10s SS P&P after fabrication

6 Required

1 pc) 10" 150# Lap Joint Flg x Flg double SR 90

1 pc) 10" 150# Lap Joint Flg x Flg SR 90

1 pc) shorten existing by cutting existing Lap Joint prepping ends & rewelding Lap Joint.

COST for each location -\$ 7,043.00 + tax

42,258

CITY TOOL WORKS INC.

1250 E. ONTARIO BLVD
 ONTARIO, CA 91761

Phone # (909) 923-8080

Fax # (909) 923-4330

CTWI1893@AOL.COM

www.CityToolWorksInc.com

Quote

Date 8/10/2020

Estimate # 5079UCP

Project Yucaipa

Customer Name & Address

Pascal & Ludwig
 2049 E. Francis St.
 Ontario, CA 91761

Qty	Description	Price Each	Total
12	18" Diameter Autostrainers x 4' 6" CL Height, H.D.G. Det #27/OM-090 Per Shop Drawing **Includes Neoprene, Hardware and Anchors**	1,427.00	17,124.00T
Sales Tax (7.75%)			\$1,327.11
Thank you for the Opportunity to Bid your Job		Total	\$18,451.11

HALCYON ELECTRIC INCORPORATED
1055-A Ortega Way Placentia CA 92870
Phone 714-630-1400 ~ Fax 714-630-1414 ~ Mobile 714-926-6472
Lic. # 717223

SCOPE LETTER

08/11/2020

To: Pascal and Ludwig

Project: Yucaipa Valley Water District – Regional Water Filtration Facility

Gentlemen:

Per your request, we are providing you with a lump sum price quote in the amount of \$ **7,250.00 dollars per unit, total bid of \$ 43,500.00** for the work on the above referenced project.

Our scope of work **INCLUDES** the following:

1. Demo and make safe for existing strainer removal.
2. Installation of MF Autostrainer Control Panel
3. Tie in 120v power to new MV Autostrainer Control Panel.
4. Tie in controls as shown on OI-22 from new Autostrainer to new Autostrainer Control Panel.
5. Install Ethernet Cable from Autostariner Control Panel to Microfiltration Control Panel.
6. Provide 4to20Ma Cable for Pentair Avid Smartcal Positioner.

SPECIFIC PROJECT NOTES:

- Drawing OI-18 Note 7 our assumption is the new Control Panel will be furnished with ethernet switch and that there is an existing conduit that can be used to go from MF Unit to SCADA.
- Drawing OI-18 Note 8 Red Lion DA Data Station Protocol Converter will be furnished and installed by District SCADA Company.
- Drawing OI-12 our assumption is there is an existing conduit that can be utilized to provide 4to20Ma Cables from Petair Avid Smartcal Positioner to Microfiltration Unit Control Panel.
- All Microfiltration Unit Control Panel and HMI modifications and programming to be performed by District SCADA Company.

2. Excavation and backfill concrete/asphalt cutting, breaking, removal, trenching, backfill, select backfill, crushed gravel for pull boxes, repair, formed concrete haul off and replacement.
3. Traffic Control Plan, Traffic Control safety equipment (Cones, sign boards, trench plates any other associated items).
4. Demo (We make safe only) other then items called out on our scope letter.
5. Patching and painting.
6. Concrete housekeeping pads, pole/antenna bases, grout and dry packing of equipment pads, core drilled holes and patching.
7. Bollards.
8. Miscellaneous metals.
9. Generator supply and installation.
10. Pump and motor supply and installation.
11. Bypass pumping and temporary electrical.
12. Installation of inline devices / mechanical device installation.
13. Cathodic Protection.
14. PLC, PLC Programming and instruments.

Halcyon Electric, Inc. is bondable however the cost of the bond is not included in our price bond rate is 2%.

Halcyon is a registered as a Public Works Contractor Registration Number 1000001849.

Should you have any questions please call my mobile phone # 714-926-6472.

Sincerely,
Halcyon Electric, Inc.

Robert Yakemonis



Quotation

8780 19th Street · Box 279 · Alta Loma, CA 91701 · Ph 714.494.4564 · Fx 714.494.4866

Quotation Letter

August 6, 2020
QV Reference: 1074.1

Project Title: YVWD Wochholz Regional Water Recycling Facility MF Autostrainer Replacement

This proposal meets the related specifications, drawings and addendums:

Project Specifications: Pages 1 thru 25 (SPI Draft)
Project Drawings: Pages 1 thru 14 (SPI Preliminary)

Services to be provided:

1. Procurement and installation of (6) Ethernet switches
2. Procurement, installation and programming of (1) Ethernet protocol converter
3. Procurement and commissioning of (6) pneumatic actuator positioners
4. All programming of Plant MF PLC (PLC-2) as required
5. All programming of Plant HMI/SCADA as required

Materials to be provided:

1. Qty. 1 – Ethernet Protocol Converter
2. Qty. 6 – 5-Port Unmanaged Ethernet Switch
3. Qty. 6 – Pneumatic Actuator Positioner

Clarifications:

1. Sales Tax included in all prices

engineering versatile solutions · delivering quality results



Quotation

8780 19th Street · Box 279 · Alta Loma, CA 91701 · Ph 714.494.4564 · Fx 714.494.4866

Exclusions:

- 1. Submittals
- 2. Drawings
- 3. Manuals
- 4. Software and/or software licenses

Terms and Conditions:

- 1. Prices quoted are valid for 90 days from date of quote.
- 2. Terms of payment
 - a. Monthly progressive payment schedule based on actual work completed
 - b. Invoices are due net 30 days
- 3. Prices quoted are subject to change based on changes to the project scope

Lump Sum.....	\$28,880.00
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Best Regards,

Jason Becker
 Q VERSA, LLC
 714.443.1874

RESOLUTION NO. 2020-39

**RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT
AUTHORIZING FUND TRANSFER NO. 6 FOR FISCAL YEAR 2021 WITHIN THE
SEWER ENTERPRISE**

WHEREAS, the Yucaipa Valley Water District recognizes the importance of funding projects within the District with funds set aside for this purpose, and

WHEREAS, the Board of Directors has approved the purchase of six Forsta Auto Strainers and installation at the Wochholz Regional Water Recycling Facility to provide high quality filter feed water to the Pall membranes.

NOW, THEREFORE, the Board of Directors of the Yucaipa Valley Water District hereby RESOLVE, DETERMINE, and ORDER as follows:

Section 1: Fund Transfer No. 7 in the amount up to \$487,000 from the Sewer Fund Infrastructure Reserves (03-000-10311) to fund 100% of the purchase of six Forsta Auto Strainers and installation.

PASSED, APPROVED and ADOPTED this 8th day of September 2020.

YUCAIPA VALLEY WATER DISTRICT

Chris Mann, President Board of Directors

ATTEST:

Joseph B. Zoba, General Manager



Date: September 8, 2020

Prepared By: Jennifer Ares, Water Resource Manager

Subject: Consideration of Resolution No. 2020-40 Approving the Notice of Exemption for the Annual Maintenance of the Oak Glen Basins

Recommendation: That the Board adopt Resolution No. 2020-40.

The District’s Board of Directors approved Director Memorandum No. 07-107 to enter into an agreement with the City of Yucaipa and San Bernardino County Flood Control District for the Design, Construction, Operation and Maintenance of the Oak Glen Creek Basins. In addition, the Operational Plan for the Oak Glen Basins was approved in October 2009 by all parties. The agreement set forth a cooperative arrangement for the purpose of providing enhanced flood control capabilities, recreational trail opportunities, and passive groundwater recharge.

Each agency has a role to assist in the operation and maintenance of the basins. The District utilized the Oak Glen Basins in 2019/2020 to recharge additional state water project water. While the recharge was effective, required maintenance of the basin bottoms will maximize future recharge efforts. Environmental approvals from the regulatory agencies are required prior to basin scarification.



A Notice of Determination has been prepared for consideration by the Yucaipa Valley Water District Board of Directors. The determination for this project will be submitted as a Notice of Exemption (NOE). The NOE determination is based on the California Environmental Quality Act (CEQA), Article 19, Categorical Exemption Section 15301 Class 1, Existing Facilities.

Resolution No. 2020-40 is attached for your review and consideration.

Financial Impact

There are no financial impacts associated with the adoption of this resolution. The anticipated maintenance activities will be conducted by the Public Works Department and incurred as a routine operational expense.

RESOLUTION NO. 2020-40**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
YUCAIPA VALLEY WATER DISTRICT APPROVING THE NOTICE OF EXEMPTION
FOR THE ANNUAL MAINTENANCE OF THE OAK GLEN BASINS**

WHEREAS, the Yucaipa Valley Water District (the "District") is a public agency of the State of California organized and existing pursuant to the provisions of the County Water District Law of this State (Section 30000, et seq. of the Water Code); and

WHEREAS, the District is responsible for the maintenance of water and wastewater facilities within the District's service area; and

WHEREAS, the District has partnered with San Bernardino County Flood Control District and the City of Yucaipa on the completed Oak Glen Basins Project.

NOW, THEREFORE, the Board of Directors of the Yucaipa Valley Water District hereby RESOLVE, DETERMINE, and ORDER as follows:

1. The Board of Directors hereby finds that approval of the Project is not subject to environmental review under the California Environmental Quality Act (CEQA), Public Resources Code §21000 et seq. and the State CEQA Guidelines, California. Article 5, 15062 Notice of Exemption.
2. The annual maintenance of the Oak Glen Basins is classified as Article 19, Categorical Exemption, 15301. Class 1, Existing Facilities of the operation and maintenance of existing public facilities involving negligible or no expansion of existing or former use.
3. The Board of Directors hereby directs District staff to file a Notice of Exemption for the project within five working days of approval of the Annual Maintenance of the Oak Glen Basins.
3. The Board of Directors hereby approves the Annual Maintenance of the Oak Glen Basins and directs the General Manager to file the Notice of Exemption with the County of San Bernardino and the Office of Planning and Research.

PASSED, APPROVED and ADOPTED this 8th day of September 2020.

YUCAIPA VALLEY WATER DISTRICT

Chris Mann, President Board of Directors

ATTEST:

Joseph B. Zoba, General Manager

Notice of Exemption

Appendix E

To: Office of Planning and Research
P.O. Box 3044, Room 113
Sacramento, CA 95812-3044
County Clerk
County of: San Bernardino
385 N. Arrowhead Avenue
San Bernardino, CA 92415

From: (Public Agency): Yucaipa Valley Water District
12770 Second St.
Yucaipa CA, 92399
(Address)

Project Title: Oak Glen Creek Basins Maintenance and Scarification

Project Applicant: Yucaipa Valley Water District (YVWD)

Project Location - Specific:

Bryant St. and Eucalyptus St.; approximate center is 34.044584°, -117.030830°

Project Location - City: Yucaipa Project Location - County: San Bernardino

Description of Nature, Purpose and Beneficiaries of Project:

YVWD purchases water in order to recharge the local groundwater basins. In order to maximize recharge annually, the Oak Glen Basins require maintenance to ensure the infiltration surface isn't clogging due to vegetation and/or soil compaction. Fine sediments and dried algae settle and accumulate over the infiltration surface over time and need to be removed periodically allowing for maximum water recharge into the soil. No vegetation removal will take place on the banks of the basin, only the basin bottoms which consist of predominately invasive plant species.

Name of Public Agency Approving Project: Yucaipa Valley Water District

Name of Person or Agency Carrying Out Project: Yucaipa Valley Water District

Exempt Status: (check one):

- Ministerial (Sec. 21080(b)(1); 15268);
Declared Emergency (Sec. 21080(b)(3); 15269(a));
Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
[X] Categorical Exemption. State type and section number: 15301. Class 1, Existing Facilities
Statutory Exemptions. State code number:

Reasons why project is exempt:

The Proposed project only includes maintenance activities of existing facilities. Existing facilities will not be constructed or changed.

Lead Agency
Contact Person: Jennifer Ares Area Code/Telephone/Extension: (909) 790-3301

If filed by applicant:

- 1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? Yes No

Signature: Date: Title: Water Resource Manager

Signed by Lead Agency Signed by Applicant

Authority cited: Sections 21083 and 21110, Public Resources Code. Date Received for filing at OPR:
Reference: Sections 21108, 21152, and 21152.1, Public Resources Code.



Date: September 8, 2020

Prepared By: Allison M. Edmisten, Chief Financial Officer

Subject: Discussion Regarding the Revision to the Personnel Manual Language Regarding Holiday Time Accrued

Recommendation: That, by minute order, the Board approve the proposed exception to the Personnel Manual for November and December 2020.

On March 24, 2020, the Board of Directors adopted the District Personnel Manual [Director Memorandum 20-031] with specific language related to Holiday Pay (page 14) which states:

“If a holiday occurs on the employee’s scheduled day off, that day is still considered to be a day off, and the employee receives the accrued holiday leave (at straight time) as part of their leave balances...All holiday leave accrued must be approved and utilized by December 31st of the same year.”

In calendar year 2020, the Christmas Holiday falls on a Friday when most District employees are scheduled off due to changes implemented with COVID-19. As a result, this would result in logistical difficulties with many employees needing to use that accrued holiday time within 6 days of the fiscal year ending.

For calendar year 2020, District Management recommends allowing District employees to use both the Thanksgiving holidays as well as the Christmas holiday anytime within the month of November and December 2020. This would result in employees being able to use their holiday time prior to the actual accrual if they are expected to be scheduled off on the holidays.

If an employee uses the holiday accrual in error, the employee would be required to use their own leave time (excluding sick leave) or receive time off without pay.

Board Reports and Comments



Yucaipa Valley Water District



FACTS ABOUT THE YUCAIPA VALLEY WATER DISTRICT

Service Area Size: 40 square miles (sphere of influence is 68 square miles)

Elevation Change: 3,140 foot elevation change (from 2,044 to 5,184 feet)

Number of Employees: 5 elected board members
72 full time employees

FY 2019-20 Operating Budget: Water Division - \$14,455,500
Sewer Division - \$12,217,712
Recycled Water Division - \$1,301,447

Number of Services: 13,794 drinking water connections serving 19,243 units
14,104 sewer connections serving 22,774 units
111 recycled water connections serving 460 units

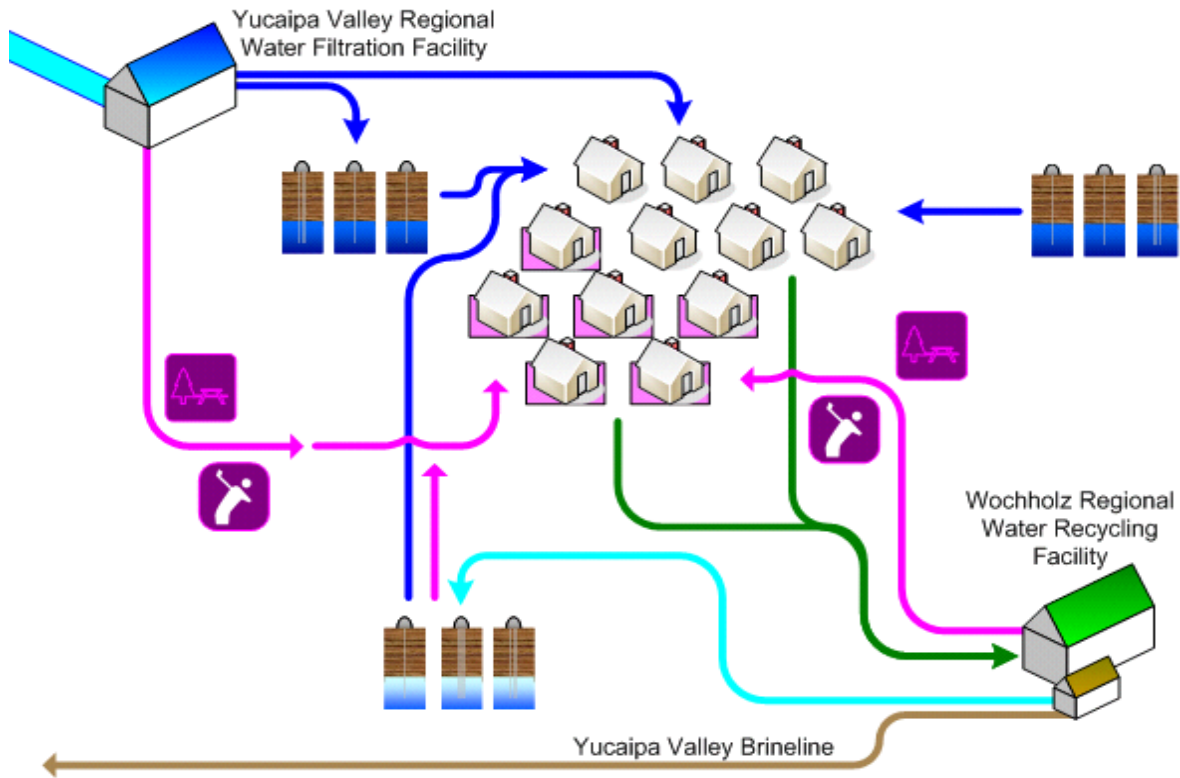
Water System: 223 miles of drinking water pipelines
2,033 fire hydrants
27 reservoirs - 34 million gallons of storage capacity
18 pressure zones
2.958 billion gallon annual drinking water demand
Two water filtration facilities:
- 1 mgd at Oak Glen Surface Water Filtration Facility
- 12 mgd at Yucaipa Valley Regional Water Filtration Facility

Sewer System: 8.0 million gallon treatment capacity - current flow at 3.5 mgd
213 miles of sewer mainlines
4,504 sewer manholes
5 sewer lift stations
1.27 billion gallons of recycled water produced per year

Recycled Water: 22 miles of recycled water pipelines
5 reservoirs - 12 million gallons of storage
0.681 billion gallon annual recycled water demand

Brine Disposal: 2.2 million gallon desalination facility at sewer treatment plant
1.756 million gallons of Inland Empire Brine Line capacity
0.595 million gallons of treatment capacity in Orange County

Sustainability Plan: A Strategic Plan for a Sustainable Future: The Integration and Preservation of Resources, adopted on August 20, 2008.



Typical Rates, Fees and Charges:

- Drinking Water Commodity Charge:

1,000 gallons to 15,000 gallons	\$1.429 per each 1,000 gallons
16,000 gallons to 60,000 gallons	\$1.919 per each 1,000 gallons
61,000 gallons to 100,000 gallons	\$2.099 per each 1,000 gallons
101,000 gallons or more	\$2.429 per each 1,000 gallons

- Recycled Water Commodity Charge:

1,000 gallons or more	\$1.425 per each 1,000 gallons
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- Water Meter Service Charge (Drinking Water or Recycled Water):

5/8" x 3/4" Water Meter	\$14.00 per month
1" Water Meter	\$23.38 per month
1-1/2" Water Meter	\$46.62 per month

- Sewer Collection and Treatment Charge:

Typical Residential Charge	\$42.43 per month
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State Water Contractors: San Bernardino Valley Municipal Water District
San Gorgonio Pass Water Agency



	San Bernardino Valley Municipal Water District	San Gorgonio Pass Water Agency
Service Area Size	353 square miles	222 square miles
Table "A" Water Entitlement	102,600 acre feet	17,300 acre feet
Imported Water Rate	\$125.80 / acre foot	\$399 / acre foot
Tax Rates for FY 2019-20	\$0.1425 per \$100	\$0.1775 per \$100
Number of Board Members	Five (5)	Seven (7)
Operating Budget FY 2019-20	\$58,372,000	\$9,551,000

Imported Water Charges (Pass-through State Water Project Charge)

- San Bernardino Valley Municipal Water District - Customers in San Bernardino County or City of Yucaipa pay a pass-through amount of \$0.270 per 1,000 gallons.
- San Gorgonio Pass Water Agency - Customers in Riverside County or City of Calimesa pay a pass-through amount of \$0.660 per 1,000 gallons. A proposed rate change to \$0.857 per 1,000 gallons is pending future consideration by YVWD.





GLOSSARY OF COMMONLY USED TERMS

Every profession has specialized terms which generally evolve to facilitate communication between individuals. The routine use of these terms tends to exclude those who are unfamiliar with the particular specialized language of the group. Sometimes jargon can create communication cause difficulties where professionals in related fields use different terms for the same phenomena.

Below are commonly used water terms and abbreviations with commonly used definitions. If there is any discrepancy in definitions, the District's Regulations Governing Water Service is the final and binding definition.

Acre Foot of Water - The volume of water (325,850 gallons, or 43,560 cubic feet) that would cover an area of one acre to a depth of 1 foot.

Activated-Sludge Process - A secondary biological wastewater treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen and consume dissolved nutrients in the wastewater.

Annual Water Quality Report - The document is prepared annually and provides information on water quality, constituents in the water, compliance with drinking water standards and educational material on tap water. It is also referred to as a Consumer Confidence Report (CCR).

Aquifer - The natural underground area with layers of porous, water-bearing materials (sand, gravel) capable of yielding a supply of water; see Groundwater basin.

Backflow - The reversal of water's normal direction of flow. When water passes through a water meter into a home or business it should not reverse flow back into the water mainline.

Best Management Practices (BMPs) - Methods or techniques found to be the most effective and practical means in achieving an objective. Often used in the context of water conservation.

Biochemical Oxygen Demand (BOD) - The amount of oxygen used when organic matter undergoes decomposition by microorganisms. Testing for BOD is done to assess the amount of organic matter in water.

Biosolids - Biosolids are nutrient rich organic and highly treated solid materials produced by the wastewater treatment process. This high-quality product can be recycled as a soil amendment on farmland or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth.

Capital Improvement Program (CIP) - Projects for repair, rehabilitation, and replacement of assets. Also includes treatment improvements, additional capacity, and projects for the support facilities.

Certificate of Participation (COP) – A type of financing where an investor purchases a share of the lease revenues of a program rather than the bond being secured by those revenues.

Coliform Bacteria - A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere used as indicators of sewage pollution. E. coli are the most common bacteria in wastewater.

Collections System - In wastewater, it is the system of typically underground pipes that receive and convey sanitary wastewater or storm water.

Conjunctive Use - The coordinated management of surface water and groundwater supplies to maximize the yield of the overall water resource. Active conjunctive use uses artificial recharge, where surface water is intentionally percolated or injected into aquifers for later use. Passive conjunctive use is to simply rely on surface water in wet years and use groundwater in dry years.

Consumer Confidence Report (CCR) - see Annual Water Quality Report.

Contaminants of Potential Concern (CPC) - Pharmaceuticals, hormones, and other organic wastewater contaminants.

Cross-Connection - The actual or potential connection between a potable water supply and a non-potable source, where it is possible for a contaminant to enter the drinking water supply.

Disinfection by-Products (DBPs) - The category of compounds formed when disinfectants in water systems react with natural organic matter present in the source water supplies. Different disinfectants produce different types or amounts of disinfection byproducts. Disinfection byproducts for which regulations have been established have been identified in drinking water, including trihalomethanes, haloacetic acids, bromate, and chlorite

Drought - a period of below average rainfall causing water supply shortages.

Fire Flow - The ability to have a sufficient quantity of water available to the distribution system to be delivered through fire hydrants or private fire sprinkler systems.

Gallons per Capita per Day (GPCD) - A measurement of the average number of gallons of water use by the number of people served each day in a water system. The calculation is made by dividing the total gallons of water used each day by the total number of people using the water system.

Groundwater Basin - An underground body of water or aquifer defined by physical boundaries.

Groundwater Recharge - The process of placing water in an aquifer. Can be a naturally occurring process or artificially enhanced.

Hard Water - Water having a high concentration of minerals, typically calcium and magnesium ions.

Hydrologic Cycle - The process of evaporation of water into the air and its return to earth in the form of precipitation (rain or snow). This process also includes transpiration from plants, percolation into the ground, groundwater movement, and runoff into rivers, streams, and the ocean; see Water cycle.

Levels of Service (LOS) - Goals to support environmental and public expectations for performance.

Mains, Distribution - A network of pipelines that delivers water (drinking water or recycled water) from transmission mains to residential and commercial properties, usually pipe diameters of 4" to 16".

Mains, Transmission - A system of pipelines that deliver water (drinking water or recycled water) from a source of supply to the distribution mains, usually pipe diameters of greater than 16".

Meter - A device capable of measuring, in either gallons or cubic feet, a quantity of water delivered by the District to a service connection.

Overdraft - The pumping of water from a groundwater basin or aquifer in excess of the supply flowing into the basin. This pumping results in a depletion of the groundwater in the basin which has a net effect of lowering the levels of water in the aquifer.

Pipeline - Connected piping that carries water, oil, or other liquids. See Mains, Distribution and Mains, Transmission.

Point of Responsibility, Metered Service - The connection point at the outlet side of a water meter where a landowner's responsibility for all conditions, maintenance, repairs, use and replacement of water service facilities begins, and the District's responsibility ends.

Potable Water - Water that is used for human consumption and regulated by the California Department of Public Health.

Pressure Reducing Valve - A device used to reduce the pressure in a domestic water system when the water pressure exceeds desirable levels.

Pump Station - A drinking water or recycled water facility where pumps are used to push water up to a higher elevation or different location.

Reservoir - A water storage facility where water is stored to be used at a later time for peak demands or emergencies such as fire suppression. Drinking water and recycled water systems will typically use concrete or

steel reservoirs. The State Water Project system considers lakes, such as Shasta Lake and Folsom Lake to be water storage reservoirs.

Runoff - Water that travels downward over the earth's surface due to the force of gravity. It includes water running in streams as well as over land.

Santa Ana River Interceptor (SARI) Line - A regional brine line designed to convey 30 million gallons per day (MGD) of non-reclaimable wastewater from the upper Santa Ana River basin to Orange County Sanitation District for treatment, use and/or disposal.

Secondary treatment - Biological wastewater treatment, particularly the activated-sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.

Service Connection - The water piping system connecting a customer's system with a District water main beginning at the outlet side of the point of responsibility, including all plumbing and equipment located on a parcel required for the District's provision of water service to that parcel.

Sludge - Untreated solid material created by the treatment of wastewater.

Smart Irrigation Controller - A device that automatically adjusts the time and frequency which water is applied to landscaping based on real-time weather such as rainfall, wind, temperature, and humidity.

South Coast Air Quality Management District (SCAQMD) - Regional regulatory agency that develops plans and regulations designed to achieve public health standards by reducing emissions from business and industry.

Special district - A form of local government created by a local community to meet a specific need. Yucaipa Valley Water District is a County Water District formed pursuant to Section 30000 of the California Water Code

Supervisory Control and Data Acquisition (SCADA) - A computerized system which provides the ability to remotely monitor and control water system facilities such as reservoirs, pumps, and other elements of water delivery.

Surface Water - Water found in lakes, streams, rivers, oceans, or reservoirs behind dams. In addition to using groundwater, Yucaipa Valley Water District receives surface water from the Oak Glen area.

Sustainable Groundwater Management Act (SGMA) - Pursuant to legislation signed by Governor Jerry Brown in 2014, the Sustainable Groundwater Management Act requires water agencies to manage groundwater extractions to not cause undesirable results from over production.

Transpiration - The process by which water vapor is released into the atmosphere by living plants.

Trickling filter - A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in wastewater as it trickles over them.

Underground Service Alert (USA) - A free service (<https://www.digalert.org>) that notifies utilities such as water, telephone, cable and sewer companies of pending excavations within the area (dial 8-1-1 at least 2 working days before you dig).

Urban runoff - Water from city streets and domestic properties that carry pollutants into the storm drains, rivers, lakes, and oceans.

Valve - A device that regulates, directs, or controls the flow of water by opening, closing, or partially obstructing various passageways.

Wastewater - Any water that enters the sanitary sewer.

Water Banking - The practice of actively storing or exchanging in-lieu surface water supplies in available groundwater basin storage space for later extraction and use by the storing party or for sale or exchange to a third party. Water may be banked as an independent operation or as part of a conjunctive use program.

Water Cycle - The continuous movement water from the earth's surface to the atmosphere and back again.

Water Pressure - Water pressure is created by the weight and elevation of water and/or generated by pumps that deliver water to customers.

Water Service Line - A water service line is used to deliver water from the Yucaipa Valley Water District's mainline distribution system.

Water table - the upper surface of the zone of saturation of groundwater in an unconfined aquifer.

Water transfer - a transaction, in which a holder of a water right or entitlement voluntarily sells/exchanges to a willing buyer the right to use all or a portion of the water under that water right or entitlement.

Watershed - A watershed is the region or land area that contributes to the drainage or catchment area above a specific point on a stream or river.

Water-Wise House Call - a service which provides a custom evaluation of a customer's indoor and outdoor water use and landscape watering requirements.

Well - a hole drilled into the ground to tap an underground aquifer.

Wetlands - lands which are fully saturated or under water at least part of the year, like seasonal vernal pools or swamps.





COMMONLY USED ABBREVIATIONS

AQMD	Air Quality Management District
BOD	Biochemical Oxygen Demand
CARB	California Air Resources Board
CCTV	Closed Circuit Television
CWA	Clean Water Act
EIR	Environmental Impact Report
EPA	U.S. Environmental Protection Agency
FOG	Fats, Oils, and Grease
GPD	Gallons per day
MGD	Million gallons per day
O & M	Operations and Maintenance
OSHA	Occupational Safety and Health Administration
POTW	Publicly Owned Treatment Works
PPM	Parts per million
RWQCB	Regional Water Quality Control Board
SARI	Santa Ana River Inceptor
SAWPA	Santa Ana Watershed Project Authority
SBVMWD	San Bernardino Valley Municipal Water District
SCADA	Supervisory Control and Data Acquisition system
SGMA	Sustainable Groundwater Management Act
SSMP	Sanitary Sewer Management Plan
SSO	Sanitary Sewer Overflow
SWRCB	State Water Resources Control Board
TDS	Total Dissolved Solids
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
WDR	Waste Discharge Requirements
YVWD	Yucaipa Valley Water District