## BEAR VALLEY WATER DISTRICT



Newsletter

October 2020

Safe, Efficient and Reliable Resource Recovery in the Central Sierra

#### **Executive Summary**

#### **NPDES Permit Renewal:**

**District Submits Report of Waste** Discharge for New 5-Year Permit

#### Sewer Surveillance for SARS-CoV-2:

**BVWD** Tests Treated and Untreated Wastewater for the Presence of SARS-CoV-2

#### **BVWD Partners with Tesla for Backup Battery Power Packs:**

Self-Generation Incentive Program Provides Equity Resiliency Incentives for Critical Infrastructure

Fats, Oil and Grease "FOG":

**Disposal Alternatives** 

#### The Problem-High Levels of Salt District's Wastewater Treatment 0045.

Salinity Issues in Central Valley Highlight Why Wastewater Agencies Need to Educate Customers across California

**Board Appoints Environmental Engineer to Fill Vacancy:** Diane Lundquist Lends her Technical and Regulatory Experience to Support Bear Valley



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### DISTRICT SEEKS 2021 NPDES PERMIT RENEWAL WITH RECENT APPLICATION

several

necessary

was

prescribes effluent disposal to land following the District's Order R5-2016-0045 R5-2005-0139 renewed every 5 years.

As requested by the Central Valley infrastructure in 2007. Regional Water Quality Control Waste Discharge (ROWD) and outfall project as well as address projects in Bear Valley. supporting information for renewal discharge requirements imposed by

(WWTF) discharge Facility of treated wastewater "effluent") to Bloods Creek.

(termed In April 2017, the District performed and those elements of previous permits that

#### BVWD PURSUES TESTING WASTEWATER FOR SARS-CoV-2

the

Following concerns raised Vallev Water District CoV-2 in August.

Wastewater-based (WBE), or sewer surveillance, is a infection individually, COVID-19 outbreaks.

Since March, both large and small \$88,000. cities and agencies across the

by country, including East Bay MUD laboratories, BVWD elected to contract Board universities including epidemiology the virus in wastewater.

rapidly growing field first employed As early as late May, Mariposa virus. to study the prevalence of illicit drug County, which manages treatment polio and hepatitis A in wastewater. sewage to track the virus, Ex to COSMOS-ID. way to detect and track regional Monday after July 4 weekend. through January at a total cost of US

The Bear Valley Water District The District applied for its first to Bloods Creek in 2018 and 2019. Dedicated maintains two discharge permits for surface discharge permit in April work by District staff to respond to Water the disposal of wastewater effluent 2004 following a cease and desist Board requests in the years leading up to collected and treated at the order issued by the Regional Water 2016 provided the Regional Board the data as District's treatment facility. While Quality Control Board that limited well as the confidence to award the District waste discharge order #5-01-208 new construction in Bear Valley with its current permit. Most critically, the uncontrolled District's 2016 permit removed certain and last required renewed in 2001, discharges in the late 1990's. Order discharge limitations which had previously ultimately constrained the District's ability to meet the prescribes effluent disposal to awarded to the District in October buildout objectives contained in the 1978 surface waters and must be 2005 and the District secured Master Plan. In fact, by 2018, the District funding and initiated construction of Engineer took advantage of real-time discharge discharge data to draft a memorandum to the Board of Directors amending the equivalent dwelling units (EDUs) available to the District

Board in its April 28, 2020 letter, Over the ensuing 10 years the from 245 to 1196 and provided the basis for the District submitted its Report of District continued to complete the the District to confidently prepare for future

of Waste Discharge Requirements the Water Board. In 2016, the The recent application to renew the District's Order No. R5-2016-0045 (NPDES District was finally awarded its best NPDES Order in 2021 builds on the success No. CA0085146), permitting the permit to date, Order R5-2016- of the 2016 permit and continues to strive to reduce monitoring and reporting costs where possible while preserving the environment

> its first surface water discharge remain of value to Bear Valley's long term without issue and again discharged sustainability.

community members about the and New York City as well as with COSMOS-ID, another leading private potential presence of the novel agencies in Colorado and Ohio, epidemiology lab based out of Rockville, coronavirus in Bear Valley, the Bear have partnered with a variety of Maryland, to evaluate samples from the the Bear Valley wastewater collection system. authorized District Staff to pursue University of Arizona, Stanford, In addition to sampling and testing raw testing the waste stream for SARS- UC Berkeley and the University of untreated wastewater for evidence of virus South Carolina to protect public shed in the waste stream, the District also health through early detection of believed there was value in testing treated wastewater to confirm that its disinfection process was effectively neutralizing the

use in communities and eventually facilities that service Yosemite Samples were collected by District staff on expanding to detect viruses such Valley, first started studying its August 18 and shipped overnight via Fed On August 30, More efficient than testing for contracting with the Boston based COSMOS-ID, utilizing the RNA Reverse testing private-sector lab Biobot. After Transcriptase quantitative PCR method wastewater for SARS-CoV-2 has weeks of sampling, the agency (RT-pPCR), reported that there was no been identified as a cost-effective received its first positive results evidence of the virus in either sample.

> Mariposa plans to continue testing On August 17, the CDC together with the Health and Human Services Department also initiated the National In August, after contacting several Wastewater Surveillance System (NWSS).





# RWOCD #



#### DIANE LUNDQUIST



California's rate-payer funded Self Meanwhile, the Power Safety Shutoff These "equity resiliency incentives" successful peak-load

to reflect changing conditions and infrastructure The changes included the allocation of as water and wastewater facilities. 75% of the incentive budget to energy

Commission (CPUC) made over \$600 infrastructure not entirely prepared to

communities.

and food processing, even in the the wastewater system. the Central Valley where rising salt not in the wastewater system.

Generation Incentive Program (SGIP) is Program (PSPS) initiated by Pacific Gas & funded through the SGIP program one of the longest-running and most Electric (PGE) in 2019 to mitigate the risks became available to agencies located distributed generation of wildfires ignited by the power grid in a Tier 2 or Tier 3 high fire threat incentive programs in the country. The during high wind - low humidity events in districts (HFTD), who provide critical SGIP was initially conceived of as a California has had enormous adverse infrastructure and were subject to reduction program in impacts on both residents and businesses two or more PSPS events. response to the energy crisis of 2001. across the state. However, the impact of

**BVWD QUALIFIES FOR EQUITY RESILIENCY INCENTIVES TO INSTALL TESLA POWER PACKS** 

multiple days without electricity has Working with Tesla Commercial SGIP was significantly modified in 2016 perhaps been most acutely felt by critical Energy Storage, an analysis of facilities priorities with respect to the program. hospitals, police and fire stations as well treatment facility determined that,

26, 2020 the California Public Utilities vulnerable communities and critical three Tesla power packs.

million in rebates available for battery provide continuous, uninterrupted service BVWD contracted with storage "to help Californian's save during these extended events, cash Commercial in May 2020 and is now money and stay safe during wildfire- incentives to cover the full cost of awaiting release of another round of related power outages" in vulnerable installation were made available to the funding to proceed. Installation is critical infrastructure sector.

CALIFORNIA'S GROWING SALINITY CHALLENGES

High levels of salt in California's levels threaten to turn this productive As a reminder, fats, cooking oils, and Central Valley have impacted basin into a land where the water is not fit grease (FOG) can coat and clog pipes drinking water and reduced crop to drink should reminds all of us to and cause sewer lines to back-up into production. In addition to irrigation minimize contributing extraneous salt into homes.

discharge of treated municipal each user be conscientious of what is disrupt waste wastewater will eventually degrade flushed down toilets and sinks. Human processes with detrimental results. groundwater with salt and the waste and chemicals such as soaps and Instead of pouring fats, oil, grease or individual components of salts (e.g. detergents from cleaning all belong in the placing greasy foods down the garbage sodium, chloride). The District is sewer. However, products including disposal or drain, dispose properly by currently in compliance with water unused cleaning products, food waste, disposing of cooking oils and grease quality objectives for salinity but paints, chemicals, medicines, de-icing salts with your trash. Practicing safe disposal lessons learned from communities in and anti-freeze belong in the landfill and of FOG is better for your pipes and for

BVWD BOARD OF DIRECTORS WELCOMES DIANE LUNDQUIST TO THE BOARD

appointment within 60 days.

qualifying appointee, posting notice including finance, environmental

The District initiated a search for a March 15, 2020 public meeting.

3000 recipients and including an been homeowners since 2000. While years in the industry. article in the Cub Reporter. These maintaining a residence in Oakland, efforts yielded responses from (3) they consider Bear Valley to be While with the coronavirus Diane has yet to community it affords.

including BVWD's energy demand at its with annual consumption of 156,000 kWh and peak demand of 118 kW, storage projects. To this end, on May In an effort to support the needs of the District indeed qualifies for up to

> Tesla anticipated during summer 2021.

#### FOG – FATS, OILS & GREASE

"FOG" can also cause blockages further down sewer lines best of circumstances, long-term BVWD would like to remind customers that creating system overflows as well as water treatment

wastewater disposal operations.

Following the resignation of Director engineering and electrical and Diane is a retired civil engineer who holds Stefaniya Becking which became mechanical automation. No time in Professional Engineering licenses in California effective January 21, 2019, the recent memory has the Board had the and six other states. Her primary area of District Board, adhering to California luxury of considering more than one practice was in environmental issues, helping Government Code Section 1780, qualified applicant. Yet, in the end, the clients navigate technical and regulatory sought to fill this vacancy by Board voted to appoint long time Bear requirements with the Regional Water Valley homeowner Diane Lundquist to Quality Control Board and other government the term ending December 2021 at its agencies. Diane owned and operated an environmental consulting business for 14 years and subsequently became a Principal of the vacancy around Bear Valley, Diane and her wife Noël began visiting and Director for an international engineering e-blasting our database of nearly Bear Valley regularly in 1997 and have firm. Diane retired in 2019 after over 30

very qualified candidates with "home," and cherish the beauty, range attend her first in person Board meeting, she expertise in a range of relevant fields of activities, and the true sense of has already contributed substantially on a host of important issues attending remotely.