BEAR VALLEY WATER DISTRICT

Newsletter

Safe, Efficient, Reliable & Compliant Resource Recovery for Our Community October 2017

New 5-Year NPDES Permit Adopted Just in time for Massive 2016-17 Winter

Executive Summary

NPDES Permit Renewal: **Regional Board Adopts** New 5-Year Permit

Atmospheric Rivers:

Lessons Learned and Operational **Changes Implemented**

Collection System Maintenance: District Purchases Hydro Jetter

Fats, Oil and Grease "FOG": **Disposal Alternatives**

2017 District Election:

Incumbents to Be Appointed to new 4-Year Terms of Office Discharge Order R5-2016-0045.

National Pollutant Elimination System (NPDES) order discharged this particular approval provided for past winter.

full compliance with the terms of dedicated staff time considerable meet FPA & Regional years.

just in time to support the District

District received this past winter.

On June 24, 2016 the Regional District faced a Cease & Desist While many dam's in the state were Water Quality Board adopted Waste (C&D) Order in 2002 threatening overflowing, or worse crumbling, and Requirements (WDR) the economy in Bear Valley nearly other agencies were simply ill prepared 20 years ago and the agency without alternative discharge solutions moved to borrow money to install such as surface discharge, years of careful While this was the District's third the surface discharge system in and methodical attention to this complex Discharge 2007, the District successfully regulatory pathway provided a solution treated, compliant that enabled the District survive the winter concerning discharge of effluent to effluent to Bloods Creek during of 2016-17 without spilling one drop of surface waters, for the first time March, April, May and June this wastewater.

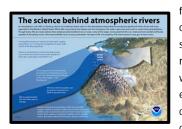
storage reservoir was nearly 90% as full with over 65 MG of water characterization Moreover, the adoption would come impounded.

The regulatory requirements behind this the order culminating years of The massive winter of 2016-17 achievement included completing two and produced volumes of wastewater in separate mixing zone studies in Bloods fiscal resources to the system not seen since 2011. Creek which EPA guidelines provide as an Board As of approximately March 1, 2017, option when agencies have difficulty requirements during the past five the District's 75 million gallon (MG) meeting "end of pipe" effluent limitations well as performing water aquatic toxicity and analyses of treated effluent.

as it sought to carefully manage Faced with several more months of Locally, careful planning and close and ultimately dispose of the winter to go, the decision was attention to fine tuning as well as enormous volume of water the made to execute the first ever replacing various components of the 10 discharge to surface waters in the year old discharge system was critical to District's history and avoid potential the successful surface discharge of treated

Indeed, for the first time since the catastrophe and overflow.

2017-18 Budget Targets Preparing For Future "Atmospheric River" Events



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E-mail bearvalleywater@sbcglobal.net winter, it also became exceedingly the term "atmospheric river." evident this year that a warming volumes in future years.

Water, including snowfall particularly rainfall during winter months, enters treatment lagoon collection lines at times inundating the state. a system designed simply for wastewater.

climate has necessitated a strategic The term atmospheric river was Consequently, District staff are implementing

the zonal flow patterns in the atmosphere. and storage where, for example, 10 inches of camera analysis, expanding through manholes and cracks in causes widespread flooding across bypasses

> The atmospheric river events of facilities of the District. January 8 - 10 and February 9 -

While careful planning and a even unique to Bear Valley, rainfall past winter did just this: unloading in excess favorable regulatory environment at high elevations has been of 10 inches of rain at 7000' elevation and contributed greatly to the District's increasing over the decades as higher in just two days. The rain lead to successful management of the storms from the Pacific Ocean are extensive flooding in Bear Valley and greatly massive water volume this past warming leading to the coining of taxed the District's collection, treatment, storage and disposal systems.

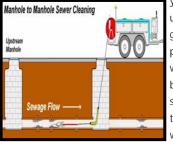
effluent during this past winter.

change at the District to manage first coined in a seminal scientific several measures to better prepare for these what may be ever increasing water paper published in 1998 to define massive hydrologic events in the future those weather events where most including: expanding pumping capacity of the warm water vapor in a storm where possible, expanding disinfection but is transported in relatively narrow capacity, maintaining lower levels in wet the wells and lagoons providing for more These types of capacity during extreme events, identifying wastewater system both directly events have now become closely points of infiltration into the collection when falling into the District's open associated with rainfall events system through jetting (cleaning) and contingency reservoir, as well as indirectly rain over 2 days more routinely equipment on hand to set up station if necessary as well as sandbagging several buildings in advance of the season to reduce water intrusion into

Though not a new phenomenon or 11 this

COLLECTION SYSTEM MAINTENANCE GETS AN UPGRADE





With many of its permitting. The District's strategic plan, aided This set of favorable conditions has led the treatment and disposal challenges in a great measure by the adoption District to purchase its first hydro-jetting behind the agency, the District has of the 2016 NPDES permit, has trailer unit. Hydro-jetting of collection turned its attention to the critical permitted the District to redirect lines, followed by analysis by a sewer task of assessing and maintaining both fiscal and staff resources to camera, is considered among "best the District's near 20 miles of the proper management of this vital practices" in the maintenance of collection collection system. underground asset array. lines.

The collection system, now 45 The adoption of the 2016 NPDES Jetters use high pressure water to clean years old, is the 90,000 linear foot permit, which allows for surface the inside of collection lines, removing of both water discharge of treated effluent debris such as grease which may be underground network gravity flow and force main or under conditions, is adhered to the walls of sewer lines as well certain pressure pipe which carries anticipated to save the District as removing roots, rocks, egg shells, kids and significant resources by providing toys and many other items which often wastewater from homes treatment reductions in costs associated with end up in collection lines potentially businesses to the system. If not maintained properly, electricity, fuel and rental causing blockages if not removed. This these lines can develop blockages equipment required when purchase alleviates the cost associated which can lead to sewer system exclusively applying effluent to with previous outsourced contract jetting overflows or "spills" causing great land. work saving the District and its ratepayers disruption to customers. over \$7000 each year.

"FOG" - FATS, OILS AND GREASE – DISPOSAL ALTERNATIVES

With the holiday season fast To prevent these problems, we the bag shut and dispose of it in a trash approaching, the District would like encourage you to dispose of these receptacle. to take this opportunity to remind cooking bi-products safely.

you of how best to dispose of fats,

when preparing holiday meals.

· Mix cooking oils with an absorbent cooking oils and grease (FOG) Here are some alternative disposal material such as coffee grounds, place in a suggestions that will reduce your lidded container and dispose in a trash impact on Bear Valley's wastewater receptacle.

As a reminder, fats, cooking oils, infrastructure.

and grease (FOG) can coat and clog pipes and cause sewer lines to Instead of pouring fats, oil, grease off grease into a container. Then place back-up into homes. "FOG" can or placing greasy foods down the paper towels over the drain basket to catch also cause blockages further down garbage disposal or drain, try the grease and food as you pour the soaking sewer lines creating

overflows as well as disrupt waste detrimental results.

water down the drain. system following: water treatment processes with • Place fats, oil, and grease in a These environmentally friendly kitchen container with a tight-sealing lid, practices are simple alternatives to

put the container in a trash bag, tie disposing of these harmful bi-products and better for wastewater disposal operations.

· If you're soaking a greasy pan, first pour

BVWD BOARD OF DIRECTORS WELCOMES INCUMBENTS FOR ANOTHER TERM

Becking's

The 2017 District resulted in no contest for incumbent candidates Jim Bissell, Boyle and John Stefaniya Becking. No additional declarations of candidacy were received the by Alpine County Clerk before the August 2017 deadline.

this December. The four year been a perfect fit for the District as water term of office for these Directors quality issues related to securing the new NPDES permit has been paramount. will expire December 5, 2021.

With an extensive background in On the Board since 2003 and a veteran in both business and non-engineer in the wastewater industry, Jim profit/public sector finance, John Bissell's guidance, leadership and experience Boyle has become an invaluable has been vital to the progress made at the resource for fiscal planning efforts District over the last 14 years. at the District.

As a result, no formal election was required. saving ratepayers Steffi sworn in after the new term begins engineering (M.S., Stanford) have terms.

election



Did you know.?

Auto Pay & E-bill Services

As a reminder, BVWD provides both automatic bill payment options as well e-bill and enewsletter services.

To sign up for electronic billing and automatic payment services, visit the Payment Options page at bearvalleywater.org and complete the authorization form.

Questions? Call 209.753.2112

The District welcomes any qualifying academic community member to consider a seat on the thousands of dollars. Directors background is in chemistry (B.S., Board in the years to come as vacancies will Bissell, Boyle and Becking will be UC Berkeley) and environmental certainly arise as Directors serve out their